

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

DECEMBER 1 1957



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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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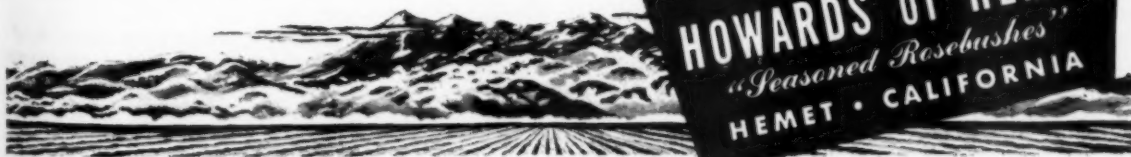
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Editorial

NEED TAX RELIEF

Lack of capital because of high income taxes was agreed to be the main problem of small businessmen who testified at a Senate small business committee hearing at Chicago last month. Many nurserymen, likewise, have found that even in profitable years the surplus earnings left after paying income taxes are not sufficient to meet needs for expansion in order to make the business larger and more profitable. In the case of a grower, so much of his additional investment must go into the ground, in the form of soil preparation and lining-out stock, that the opportunity for expansion is more severely restricted.

Some recommendations proposed by witnesses at the hearing included the payment of estate taxes and installments over a period of years; to permit partnerships and proprietorships to be taxed as corporations; to permit a proprietor of an unincorporated business to be treated as an employee under a qualified pension, profit-sharing or stock bonus plan, and graduated corporate tax rates.

The two senators from Illinois were present at the hearing, Senator Dirksen as a spectator and Senator Douglas as a member of the committee. The latter said he would press for passage of tax-reform measures which he has cosponsored in the Senate which call for modifying taxes on small business. Two other members of the committee were present, Senator Morse, of Oregon, and Senator Thyne, of Minnesota.

Innumerable complaints as to the need of tax relief have been made by small businessmen in recent years, but little has been done in response to their pleas. Small businessmen in this country probably outnumber the farmers, but they are not so well organized nor so vocal in the presentation of their complaints. So the farmers get price supports, soil banks, etc., while the small businessmen

continue unaided. Tax relief for this group would add not only to their better operations, but to the prosperity of the country as well.

CHECK INFLATION

Now that the signs are unmistakable, in a declining stock market, contraction in consumer purchases and reduced capital expenditures, bankers and government economists declare that the nation's No. 1 problem is inflation. It has been so for some time, but everyone tried to get his while the getting was good and let others face the problem. Unions continued to press for higher wage scales, manufacturers raised prices, and loans increased steadily, both business and personal.

The importance of the problem has already been recognized by some unions, which assert that they will renew contracts in 1958 instead of requesting higher wages. There is likely to be less soldiering on the job and an increase in production rates, so that some manufacturers, at least, can cut costs and lower prices somewhat. Bankers are scrutinizing business loans more closely. If individuals will heed the advice broadcast over radios and published in newspapers that they buy only necessities and pay for their purchases, the ascent of installment selling and other forms of personal loans can be curtailed.

The income tax returns for 1957 to be filed shortly request information as to expense accounts. If this halts the business and personal extravagances which have crept into all sorts of enterprises, a real step will be made toward curing inflation. The expense accounts and other extravagances which they fostered have, of course, had their rise in the high rates of income taxes, both corporate and personal. The high rates of such taxes, scarcely lowered since the war years, have led to business practices which would have been termed ridiculous by an earlier generation, but which have come into being as means of defeating the tax collector. Continued high taxes have made easy continued high government spending which has helped create the problem of inflation.

It is a serious problem for every individual, nurseryman as well as other citizen. In his personal spending, in his business plans, in his political activity and in civic and other organizations, each can do something to check inflation, and

that something is necessary in order that we may have renewed prosperity.

BUSINESS FAILURES

Although rising in the dozen years since wartime, when they were only a handful in number, business failures are less in comparison with the increased total business population. In the first six months of 1957, only 54 out of every 10,000 business concerns failed, according to a study recently issued by the business economics division of Dun & Bradstreet, Inc. The study covers business failures from 1920 to the current year. The failures and losses are analyzed by location, industry, age, size and cause.

While in the earlier years of the record the highest proportion of failures was among businesses which had been in existence for five years or less, the proportion of failures among enterprises in that group has been steadily declining in the past 10 years. On the other hand, failures among businesses aged 10 years or more have increased steadily in the same period.

Nevertheless, the causes for over 90 per cent of the failures are the same—lack of experience in the line, lack of managerial experience, unbalanced experience and incompetence.

The overwhelming proportion of causes of failure which may be classified as incompetence or lack of management, plus the indication that the rate of failure is larger in older establishments, leads one to wonder if it is a change in ownership or a change of management, possibly a new generation in the front office, that causes casualties among older business enterprises.

It might be added that no branch of the horticultural industry is sufficiently important in the list of business failures to warrant mention in the study by the credit reporting agency. It should be noted, too, that the study embraces only firms that failed with losses to creditors, not those who closed their doors with all bills paid.

PAUL F. FRESE, formerly editor of *Popular Gardening* magazine, was recently appointed garden editor of *House Beautiful* magazine. Mr. Frese has also been editor of the *Flower Grower* magazine and associate editor of *Better Homes and Gardens*.

Holly Society at Longwood Gardens

**Record Attendance Listens to Talks on
Insect Control, Container Growing and
Research at Famous Pennsylvania Site**

By Harry William Dengler



Committee members of the holly research project present at the recent meeting of the Holly Society of America: Left to right, Dr. Ralph L. Dodge, Cecilton, Md.; Dr. C. R. Wolf, Millville, N. J., re-elected president of the society; Dr. Charles Dunham, Newark, Del.; Mrs. Clare Livingston, Cecilton, Md., and Richard M. Wyman, Framingham, Mass.

Perfect fall weather, a varied program, an ideal horticultural setting and the largest attendance in its 10-year history, all combined to make the 23rd meeting of the Holly Society of America one long to be remembered.

Headquarters for the affair, November 7 and 8, was world-famous Longwood Gardens, Kennett Square, Pa., the 1,000-acre estate of the late Pierre S. du Pont.

Over 200 members were notified of the ballot re-election of Dr. C. R. Wolf as president for his sixth consecutive 2-year term. Also re-elected was the society's vice-president, Dr. George S. Avery, Jr., director, Brooklyn Botanic Garden, New York city. Charles A. Young, Jr., Bergner Mansion, Gwynn Falls park, Baltimore, Md., was re-appointed by the trustees to serve as secretary-treasurer.

After an early afternoon registration November 7, the members assembled in the Longwood Gardens' ballroom, where Dr. Wolf introduced the host, Dr. Russell J. Seibert, director of the gardens since 1955.

History of Longwood

Dr. Seibert outlined the history of Longwood. The gardens, he said, had informal beginnings about two and a half centuries ago. In 1701, William Penn deeded a tract of some 500 acres to George Pierce, a fellow Quaker. Joshua and Samuel Pierce, twin brothers and descendants of the original George, were interested in trees and by 1800 had laid out plantings which were to become locally famous and known as Pierce's park.

In their present form, Longwood Gardens are the personal creation of the late Pierre S. du Pont, who, after acquiring the property in 1906, trans-

formed the 1,000-acre estate into the attractive gardens seen today. Unlike most private estates, however, Longwood has long been shared with the public.

Dr. Seibert related that as early as 1937, Mr. du Pont had taken steps to assure the permanence of Longwood after his death. At that time, he incorporated the Longwood foundation, established it as a nonprofit organization and charged it with the care and improvement of the gardens. Since its operation by the trustees in 1954, the foundation has undertaken activities designed to give it better balance and has launched several educational and research programs.

At the conclusion of Dr. Seibert's welcome, the party was divided into smaller groups and taken on guided tours of the gardens for the remainder of the afternoon.

Members had the pleasure of informally rating some of the 200 varieties and new forms of chrysanthemums which Dr. John L. Creech, superintendent, U. S. plant introduction garden, Glenn Dale, Md., had recently brought back from Japan and which were on display in the conservatories.

Evening Program

The evening program followed an excellent turkey dinner served in the gardens' ballroom. Dr. Wolf announced that a committee consisting of Jackson M. Batchelor, Gardens Beautiful, Willard, N. C., and Dr. Joseph Gill, Elizabeth City, N. C., had investigated the possibility of taking steps to preserve the largest known holly tree in the United States. The tree, with a breast-height circumference of 11 feet and

1 inch and a height of 72 feet, is located near New Bern, N. C. A road is planned to allow easy access from the nearby highway. Thus, Dr. Wolf related, winter vacationing travelers will have an excellent opportunity to see this large holly on their trips to and from the south.

The feature of the evening's program was an illustrated talk on the experiences of Prof. Robert B. Clark, department of ornamental horticulture, Rutgers University, New Brunswick, N. J., during a summer, 1957, trip to Europe to see plantings of hollies in Germany, France, Scotland and England.

Professor Clark stated that Europe is an excellent place to study the English hollies. They grow naturally there and have been cultivated for several centuries. Great variations in form and foliage exist among these hollies. As time goes on, however, and more work is done on the American hollies, similar variations will be discovered or developed in our own native hollies, Professor Clark said.

Hollies Abroad

In his travels, many hedges of English and Japanese hollies were seen around our World War II cemeteries and memorials. In Germany, Professor Clark saw a number of English hollies which had suffered a severe cold spell and had been killed back to second and third-year wood; these were all recovering, he observed.

In Paris, Professor Clark saw some English hollies sheared to perfect cones. While this might not suit too many American tastes, it did illustrate how well these hollies will

stand this type of treatment. These trees were about 18 feet tall. Interesting forms of topiary in holly were also noted in Paris.

Professor Clark showed several slides of hollies, both trimmed and natural, used as hedges or barriers along the tops of walls and embankments in London. Here they served a very practical use. An interesting sight was a large rose garden completely enclosed with a broad hedge of sheared English holly in some places eight feet tall. At the Edinburgh Botanical Garden, Scotland, several miles of sheared holly hedges were planted to enclose the various gardens. This location, Professor Clark related, has a fine collection of English hollies, and all of them are handsomely displayed.

English Holly Collection

Of special interest to Professor Clark were the hollies at the Royal Botanical Gardens, Kew, England. Here, he found 75 varieties of the English holly, some of considerable size and age, and 16 species and varieties of other hollies. The holly walk is an excellent way to display hollies, Professor Clark found. This consists of a double planting of hollies on either side of a walk, the trees alternating in rows and being spaced about 20 feet apart.

Professor Clark closed his interesting talk with a series of slides depicting a number of the more attractive hollies to be found at Kew. He deplored the fact that more plants of the variety *camelliaefolia* are not being planted in this country. The

variety Fox is reputed to stand the salt spray of the oceans the best of any variety and might be used in American coastal areas. An oddity was one variety with a distinctly keel-tipped leaf. Of the variegated-leaved hollies, some of the weeping forms were attractive. The variety Golden Queen, curiously enough, is a male holly and does not bear berries. Madam Briot occasionally has some leaves completely devoid of green and assuming a rich golden color. Waterer is one of the most distinct and easily recognized of all the numerous golden variegated-leaved kinds.

Business Session

November 8, the morning program was devoted to business affairs of the society. Dr. C. R. Wolf announced that an editorial committee was to be appointed to prepare booklets for publication and to edit a society news-letter and the proceedings of the meetings.

Secretary-treasurer Charles A. Young, Jr., reported that the society now has 888 members; of these, 654 are regular and 234 sustaining members. A balance of over \$1,100 remains in the treasury, he said. Members represented 33 states, the District of Columbia, Canada, England, Denmark and Hawaii.

G. Flippo Gravatt, senior pathologist, plant industry station, U. S. D. A., Beltsville, Md., chairman of the society's disease committee, called attention to the articles on holly diseases appearing in the new "Handbook of Hollies." The

only additional items, he mentioned, were indications of considerable die back on the American varieties, Croonenberg and Clark, in a south New Jersey orchard last summer. An organism resembling *diplodina* has been found, but pathogenicity has not been proved; the investigation of this die back will continue. Other evidences of die back have been observed in New Jersey by Dr. S. H. Davis, Rutgers University, New Brunswick.

Observations by Dr. Wolf indicated that some disease injury had occurred in the holly orchards of the New Jersey Silica Sand Co., Millville, N. J., last summer. This was apparently due to excessive drought this year; the late rains have apparently checked the trouble.

Professor Clark explained that this has been a difficult season for growing hollies, because of the late growth due to summer drought and the fall rains. Holly berries in plantings where rainfall was deficient or in orchards without irrigation will be smaller than usual; this is not due to any disease, he said, but simply because of the lack of moisture.

At this point in the meeting, an announcement was made of the reelection of officers, as given.

Insect Problems

Dr. Clyde C. Hamilton, research specialist in entomology, department of entomology, New Jersey agricultural experiment station, New Brunswick, and chairman of the society's insect committee, reported that the "Handbook of Hollies" gives a good review of the insect pests and their controls on both the eastern and western hollies. Dr. Hamilton called attention to the use of the systemic insecticides, reported by Cory and Hyland, University of Maryland, for the control of holly leaf miner. Dr. Warren T. Johnson, of the university's department of entomology, has continued some of this work and noted some injuries resulting from the use of this material. In the summer of 1957, Dr. Johnson noted, in some instances, rather severe injury to the bark when Systox, undiluted, was painted in 8 to 10-inch bands on the lower part of the trunks in June. Trees from one and one-half to five and one-half inches in diameter were treated.

Satisfactory control of the holly leaf miner was obtained, along with an apparently good temporary control of the southern red mite. However, there were some staining and killing of the bark tissues on all sizes of trees, particularly on the south or

[Continued on page 90]



Contributors to the "Handbook of Hollies" present at the Holly Society of America meeting at Longwood Gardens: Left to right, Dr. Clyde C. Hamilton, New Brunswick, N. J.; Stewart McLean, Towson, Md.; Harry William Dengler, handbook editor, College Park, Md.; Daniel Fenton, Millville, N. J.; Dr. George S. Avery, Jr., Brooklyn, N. Y.; G. Flippo Gravatt, Beltsville, Md.; William F. Kosar, Washington, D. C., and Dr. Ray S. Hirt, Syracuse, N. Y.

American Horticultural Congress at Denver

By Margaret Herbst



Officials of the American Horticultural Council: Left to right, Dr. Albert J. Irving, New York, N. Y., newly elected president; Mrs. Jesse R. Hakes, Glenwood, Md., new first vice-president, and Phillip Alampi, outgoing president.

The program of the 12th annual American Horticultural Congress, held October 23 to 25 at Denver, Colo., was of special interest to nurserymen. Phillip Alampi, secretary of agriculture for the state of New Jersey, presided as president of the council, completing his second term.

The following officers were elected at the congress for two years: Dr. Albert J. Irving, New York city, an executive member of the Horticultural Society of New York, president; Mrs. Jesse R. Hakes, Glenwood, Md., first vice-president; Dr. Henry T. Skinner, director of the National Arboretum, Washington, D. C., second vice-president, and Dr. Donald Wyman, of the Arnold Arboretum, Jamaica Plain, Mass., secretary-treasurer.

Executive committee members were also elected for a 2-year term as follows: William H. Fredericks, Millcreek Nurseries, Newark, Del.; Mrs. Charles Hoffmann, of the National Council of State Garden Clubs, Scarsdale, N. Y.; Dr. Paul Krone, American Association for the Advancement of Science, Michigan State University, East Lansing; Dr. George H. M. Lawrence, Bailey Hortorium, Ithaca, N. Y.; Charles D. Webster, Horticultural Society of New York, Islip, N. Y., and Dr. William Snyder, Rutgers University, New Brunswick, N. J.

Opening Events

The Garden Writers' Association of America opened the congress with a special breakfast the morning of October 23. The first event was a scheduled luncheon for all delegates, courtesy of Ortho garden products. George W. Kelly, of Denver, author of "Rocky Mountain Horticulture Is Different," gave an introduction to this subject, illustrated with color slides.

The afternoon session began with

a paper on lilacs given by Dr. John C. Wister, director of the Arthur Hoyt Scott horticultural foundation at Swarthmore, Pa. He covered botanical relationships, horticultural history, cultural requirements, modern garden varieties and future breeding of lilacs. Dr. Robert W. Schery, director of the better lawn and turf institute, spoke on "High Plains Lawning and Progress Parade." He discussed the bluegrasses as the mainstays for turf in the high plains and mixtures of bluegrass with such species as the red fescues. Watering, fertilization, weed control and other good management practices were treated in a clear analysis of the home lawn problem.

An excellent account of the development of the Colorado carnation industry was given by Prof. W. D. Holley, of Colorado State University, Fort Collins. Because of the illness of Norvell Gillespie, the subject of commercial horticultural accomplishments was treated by Jack Ed-

minster, Ortho products representative, who declared that the industry is meeting the challenge of modern needs. Robert More, author of "Colorado Evergreens" presented an exceptional slide collection of adaptable nursery material at the evening dinner.

Woody Plant Testing Program

One of the reports of particular interest to nurserymen in the annual plenary session was the presentation by Dr. J. Franklin Styer of a program for the registration and testing of woody plants. Plans call for the establishment of a registry employing a graduate botanist with taxonomic training and an adequate clerical staff. A number of arboreta have already agreed to act as test stations. An advisory committee would be made up of members appointed by the American Association of Nurserymen, the American Horticultural Council, the Bailey Horto-

[Continued on page 47]



Dr. John C. Wister, of the Arthur Hoyt Scott horticultural foundation, Swarthmore, Pa., presents three American Horticultural Council citations. Dr. Wister is at the left; the recipients, left to right, are Dr. Francis A. Bartlett, Bartlett Tree Expert Co., Stamford, Conn.; Dr. Edwin A. Menninger, Stuart, Fla., and George W. Kelly, Denver, Colo.



Main building of the new garden center opened recently by Connor & Amos Nursery, Inc., near Charleston, W. Va. The structure provides office space as well as a salesroom for garden equipment and supplies. A paved area under the deep eaves of the store affords additional display space. Shown at the extreme left is a corner of the adjoining lath area.

Prizes Draw Crowd to Center Opening

Formal opening of the new garden center of Connor & Amos Nursery, Inc., Charleston, W. Va., was held September 20 to 22. Though the establishment is located about two miles from the city limits and almost a quarter of a mile from a main highway, the nursery welcomed an estimated 5,000 visitors during the official opening period, which was extensively advertised in local newspapers. A feature of the event was the gift of a 3-year Japanese holly plant and a sample package of plant food to each visitor.

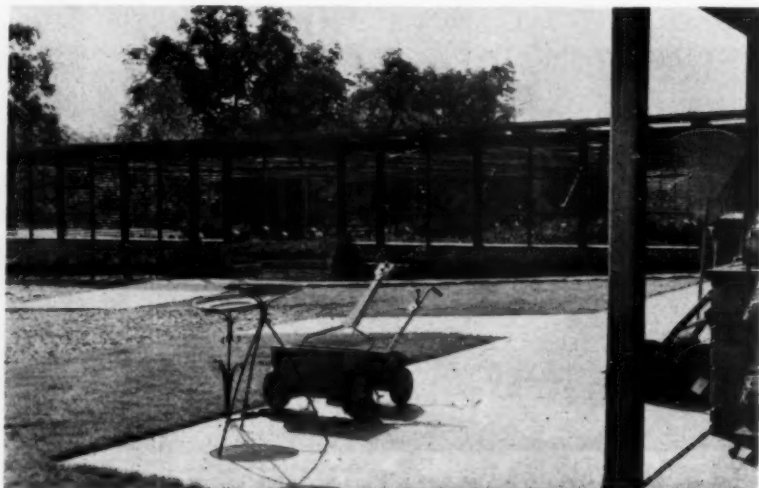
One hundred dollars' worth of plant material of the winner's selection, to be planted and guaranteed

for one year by the nursery, was offered as a grand prize September 22, in addition to a door prize—\$50 worth of evergreens of the winner's choice to be planted by the nursery, six cubic feet of peat moss, 10 pounds of plant food and 25 pounds of lawn fertilizer—awarded on each day of the 3-day opening. Plants displayed in the lath house were offered at a 25 per cent discount during the celebration, and special prices prevailed on peat moss and fertilizers. All sales were cash and carry unless totaling \$20 or more.

The garden store and executive office building at the end of the parking area, designed by a local

architect, is faced with Indiana limestone and redwood. The interior is paneled in redwood, with ceiling beams of fir. A broad expanse of glass across the front of the building gives an impression of spaciousness to the salesroom, where garden supplies and equipment are displayed. Larger equipment, pottery, lawn ornaments, tools and seeds are also displayed in a paved area under the deep eaves of the building. During the opening, bulky materials were stacked at the edge of the parking lot for convenience in loading. Dutch bulbs were offered during the initial sales period.

[Continued on page 68]



The lath house at Connor & Amos' new Charleston garden center is placed at right angles to the main building. Redwood facing and a front overhang on both structures present a unified appearance. Transite beds in the lath house interior (right) are shaded by snow fencing on a pipe framework.

Fall Wholesale Reports Show Optimism

Good Growing Season, Tighter Credit Cited, and Record Spring Forecast

Reports from wholesale nurserymen on their fall business this year suggest a continued steady buying in practically all areas of the country. While not many notable increases were cited, substantial gains were mentioned in California and the midwest. Fall business was apparently slow in starting, but picked up rapidly as the season advanced. In Pennsylvania and Ohio a leveling off of sales was mentioned. Nebraska still felt the depressing effects of the long dry period there, but spirits are rising. Tighter money conditions have resulted in slower collections in Michigan, although sales remain high, according to one firm there.

Good growing seasons are reported practically everywhere except in the northeast, where drought curtailed growth and may prove a factor in determining the condition of the spring supplies. Elsewhere, good weather aided both growing and digging and assured good condition of plants for storage. In California and Texas the rose crops are reported excellent. Specialists in container growing declare there is increasing acceptance of such material. Orchard tree replacements are requiring new varieties in the west.

A better demand for quality nursery stock is mentioned in several reports. Heavy bookings for spring make all wholesalers optimistic. Prices are said to be slightly higher in the west. Improved response to trade promotion is apparent and landscaping requirements continue high. The labor situation is easier. Costs are still mounting, and it is felt by some that the rising shipping expense, especially, is affecting sales.

Northeast Fall Trade Growing

Noting the area's serious drought experience, Charles Burr, president, C. R. Burr & Co., Inc., Manchester, Conn., comments also on steadily increasing fall sales in the following report:

"I believe it is now an established fact that fall nursery business is an important factor in a year's operations. Each year over the past several years our fall volume has increased. It is an indication that nursery promotion, together with consumer education, is taking hold.

"We find that our fall business runs very heavily to evergreens as compared to other major products, and it is my opinion that a substantial amount of fall business will nat-

urally be done in evergreens in the years to come.

"While the fall season is somewhat limited in the northeast from the standpoint of weather, we are discovering that August is an excellent month in which to make deliveries, whereas we previously felt that we should not commence shipments before September. From the early fall activity in this section it is apparent that other nurserymen in the area have discovered the same thing.

"With respect to the past fall, we have been pleasantly surprised at the volume despite one of the most serious droughts this section of the country ever suffered."

Connecticut Notes Shortages

B&B evergreens have been short of the requirements in Connecticut, writes E. D. Robinson, E. D. Robinson Sales Agency, Wallingford, Conn., in his survey of conditions:

"As a result of a great shortage of rainfall during spring and summer months, considerable growth has been lost on both evergreen and deciduous material. This will have considerable influence upon the quantities and sizes of material for spring, 1958, shipments.

"Demand has exceeded supply in most of the B&B evergreens. While this is especially true of the yew family, we are finding it to be also

true with hemlock, arborvitae and some of the junipers.

"Sales volume has kept up well, but has been adversely affected in areas where shortage of rainfall and restrictions on the use of water have been greatest. Connecticut has been more fortunate than other eastern areas, having had some good rains since September 15. Reservoirs are still low, and much more rainfall is needed. Where water has been available for overhead irrigation, it has been very helpful."

New York Dry, But Sales Hold Up

Charles H. Perkins, Jackson & Perkins Co., Newark, N. Y., writes: "Due to the dry weather which prevailed during much of the past summer and fall throughout the east, it has been a difficult year in which to operate. I do not believe that we ever experienced another season that was so dry.

In spite of the drought, our fall sales have been equal to other seasons'. The demand has been general for most of the lines which we grow. Roses, evergreens and shade trees are our principal items, and the bulk of our sales has been in these lines. Our retail business has likewise been good.

"For next season we can see no reason why the demand should not

[Continued on page 57]

NOTED ROSARIAN VISITS CALIFORNIA



Svend Poulsen, of the famous Poulsen rose family of Copenhagen, Denmark (center), views a test block of new rose varieties at the Armstrong Nurseries at Ontario, Calif., on his visit to major rose breeders and rose-growing establishments from coast to coast in America. Discussing new roses with Mr. Poulsen are David Armstrong, director of Armstrong research (left), and J. Awdry Armstrong, president of the firm. Mr. Poulsen is credited with being the originator of the now very popular floribunda class of roses.

Industrial Landscaping Award

Functional and purely decorative uses of plant material are both well illustrated in the landscape design about the modern administration and research center of S. C. Johnson & Son, Inc., Racine, Wis., internationally known wax manufacturer. The plan won a 1957 "Plant America" award of the American Association of Nurserymen for the firm and for the two nurseries which did most of the original planting, Mace-mon's Nursery and Greenleaves Nursery Co., both located in the city of Racine.

Globe Featured

A striking feature of the grounds, fronting the brick and concrete entrance plaza of the center, is a huge, plastic globe on a circular, stepped-down pedestal, shown below. A semi-circular planting of taxus in a curbed bed near the base of the globe and an

outer planting of evergreens and flowering plants within a curved brick wall enclosing the turf area give landscape harmony to the globe feature. The use of low-growing plants prevents obscuring the globe and actually magnifies its importance by contrast. The flowers that relieve the solid evergreen tone are placed in the outer circle, away from the globe, so as not to detract attention from the sphere.

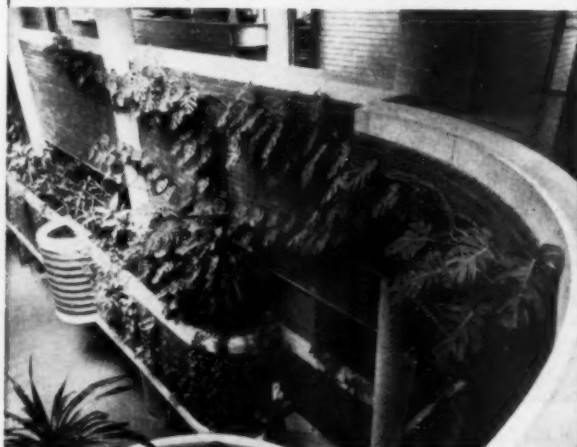
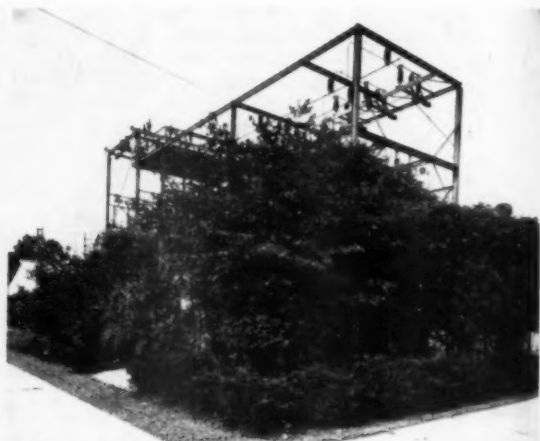
Screen Planting

A mature feature of the planting that serves a highly functional purpose is a group of multiple-stemmed, dense trees at one point on the border of the property. These trees screen the unattractive structure of an electric utility's substation, which can be noted in one of the accompanying views. Low, upright evergreens, planted at the base of the

trees, continue the masking effect below the range of the branches.

The lavish use of bold vines and foliage plants in the lobby of the building, also pictured here, would be excessive in a smaller space, but it is pleasing and effective in this situation because it is in scale with the great area involved — three stories, vertically — and also because the foliage is the only decorative element used to soften the effect of the brick and concrete interior of the lobby.

In the small roof garden off the second floor lounge of the building, as shown in an accompanying illustration, vines are used again to soften the sharp, geometrical lines of the concrete canopy and of the two planters flanking the doorway. Colorful, long-blooming petunias contrast with the dark green of taxus against the wall of the garden, while chrysanthemums in the large concrete planters add vigor to the later summer and autumn display.



Upper left—Landscaped semicircle extending about huge plastic globe fronting the entrance to the Racine, Wis., administration and research center of S. C. Johnson & Son, Inc. Lower left—Plant use in interior of the lobby area of wax firm's administration unit. Upper right—Planting around fence hides electrical substation on property adjoining Johnson establishment at Racine. Lower right—Small roof garden outside of second-floor lounge of Johnson unit.

A Busman's Holiday

Part V. Scenic Beauty of the West and Northwest

By A. O. Rasmussen

Leaving the south entrance to Yellowstone national park, my wife and I continued up the picturesque trail to West Thumb and turned left through the towering, heavily forested mountains to Old Faithful Inn, one of the most famous of the park hotels. We had no difficulty in obtaining accommodations, but found to our dismay that meals were served only at the nearby cafeteria. We joined the long line of guests, army style, and finally obtained our meal, which was delicious.

We visited the Hamilton stores, which carry everything, and were informed that Old Faithful geyser would be ready to perform at 8 o'clock. Old Faithful does not play every hour on the hour, and one cannot set his watch by it. The eruption intervals average about 65 minutes, but they vary between 30 and 90 minutes. The reputation of Old Faithful for dependability derives from the fact that it has never missed an eruption during the more than 80 years it has been observed, and its variations follow a pattern which makes the event reasonably predictable.

Many hundreds of people assembled around the rim of the geyser, which was brilliantly illuminated. We listened to one of the well-informed park rangers discuss the geyser for a few minutes and then Old Faithful began its never-to-be-forgotten performance.

We returned to Old Faithful Inn, with its giant fireplace and beguiling Bear Pit lounge containing the famous Bear Pit mural panels. These 12 panels, of carefully selected vertical-grain Douglas fir, especially treated for protection and permanency, depict the bruin population and are intriguing.

Early the following morning we started on our trip around the rim of the park. Continuing over the same route over which we came the previous night to West Thumb, we turned left and north along colorful Yellowstone lake, which is 20 miles long from north to south and 14 miles across. West Thumb bay is 300 feet deep, and the shore line is more than 100 miles. Along this loop road is located the fish hatchery operated by the United States fish and wildlife service. This was, for many years, the largest game fish hatchery in the United States. At the famous fish-



Display Gardens of the University of British Columbia, at Vancouver, B. C., Canada

ing bridge we turned left and rode north again along the Yellowstone river and up to the famous Inspiration Point of the Grand Canyon of the Yellowstone. The canyon itself is from 800 to 1,200 feet in depth. We inspected the lower falls, which are about twice the height of Niagara falls.

Afternoon Tour

Leaving the Grand canyon we continued north to Roosevelt Lodge for a late luncheon stop. We then proceeded west on the highway, which was lined with lodgepole pines, which species constitutes about 80 per cent of all the trees in the park. Incidentally, it is estimated that 85 per cent of the park is timbered.

Throughout the day we had observed the park rangers at intervals of not more than 10 to 15 minutes. Undoubtedly they were keeping a close vigil on the park site to prevent any forest fires, which could easily have occurred, because of the excessive dryness of the area.

From Mammoth Springs Junction we drove to Madison Junction and the Norris geyser basin, then south to the upper geyser basin. Tired and hungry we then returned to the warmth of Old Faithful Inn. After our hearty dinner at the cafeteria we were amazed to see our first snowstorm, which lasted only 20 minutes.

There are many types of plants to [Continued on page 97]



View of Arbor of British Columbia Test Gardens, with English Bay in Background

Highway Program and Costs, Massachusetts Meeting Topics

By John C. Dwyer, Jr.

Wednesday, November 13, the Massachusetts Nurserymen's Association held its fall meeting at Wyman's Framingham Nurseries, Framingham. Over 100 representatives of member firms were in attendance for the dinner and program.

Joseph Beasley, of the highway maintenance division, Massachusetts department of public works, was one of the guest speakers, talking on the present status and future of roadside development on state highways. Mr. Beasley said that during the next 12 years, the state will construct 430 miles of highways extending interstate. These are the highways which will be financed up to 90 per cent by the federal government, with the state paying 10 per cent of the total cost. Massachusetts has asked for additional miles on this system and is awaiting approval from the bureau of public roads.

It is estimated that during the 12 years ahead, more than \$1½ billion for interstate and augmented state highway projects will be expended. This means that the state will be spending in the vicinity of \$150,000,000 each year for highway improvements. Currently, the state is carrying a construction load of major projects, with a total construction value of \$140,500,000. During the

next 12 months the department of public works plans to advertise for construction bids on projects totaling more than \$115,000,000.

Trade's Responsibility

This program will require the specialized services of the nursery industry in Massachusetts, and Mr. Beasley called upon the association and its members to participate actively in all future projects. He indicated that it will be the responsibility of the nursery industry to provide quality plant material that will survive without excessive preparation or care in the locality where it will be used.

The highway of the future will generally be comprised of nine acres of riding surface and 27 acres of roadside per mile.

The Massachusetts department of public works now maintains 2,200 miles of highway, comprising 14,000 acres of roadside. Mr. Beasley said that any program of highway planting in Massachusetts will include erosion-control planting, planting to reduce mowing areas, planting of trees and evergreens, cloverleafs, bowl areas and other unfinished areas. Planting to cut down headlight glare can be accomplished in certain areas, and screen planting for gravel pits, dump areas and other

unsightly spots will be accomplished. The department of public works is also experimenting with planting for noise abatement.

At the conclusion of Mr. Beasley's talk, a resolution was passed by the association to cooperate with and support the efforts of the department of public works to provide a planting program that would be both a credit to the commonwealth and the nursery industry.

Cost Accounting

Richard Halloran, of Edward Halloran, Inc., Newton Highlands, spoke on costs within the industry as they relate to profit. Mr. Halloran indicated that the only way the individual operator can cope with the rising costs of operation is to make more effective utilization of labor. This means that the nurseryman must take steps to institute efficient cost accounting as it pertains to every activity of every member of his organization. Mr. Halloran presented the methods which he and his company use. He said that the science of good management is continual measurement and continual reaction to results. When the nurseryman can effectively estimate the cost of a project to a customer through the use of accurate accounting procedures on an experience basis, he will then begin to sell for profit.

Mr. Halloran declared that in his own business operation he has observed over a period of years that the cost of wages in the field has been about equal to all fixed charges of his operation, including miscellaneous overhead and depreciation of equipment.

Field Station Work

Dr. John R. Havis, director of the Waltham field station, spoke to the association on the services which he and his staff wish to provide to the nurserymen of Massachusetts. The staff members are assigned from their respective departments at the University of Massachusetts to work at the station.

The work at Waltham is done in research and extension service. Research projects encompass many phases of horticulture, with special emphasis on vegetable gardening, floriculture and nursery culture. Pest control on these crops, as well as on fruit and ornamental shade trees, is also a part of the field station investigation.

In addition to the broad research program, Waltham supports extension teaching programs in commercial and home horticulture. Extension

[Continued on page 89]



Officials of the Massachusetts Nurserymen's Association: Left to right, front row, Frank T. White, Brockton, president; Mrs. Robert Anderson, Bedford, director, and John C. Dwyer, Jr., Braintree, executive secretary; back row, Clifford Corliss, Jr., Gloucester, director; Willard M. Bond, Weymouth, vice-president; Umberto Matroni, Weymouth, treasurer, and Arnold C. Atwater, Agawam, director.

DECEMBER 1, 1957

15



On the left—

This view illustrates one of our blocks of sheared specimens of *Juniperus pfitzeriana*.

We also have available a good supply of *Juniperus pfitzeriana compacta* and *Juniperus pfitzeriana nana*, well-sheared specimens.

On the right—

This view illustrates a block of our *Juniperus glauca hetzi*, several times sheared and well-filled.

Our methods of clean cultivation and soil conservation denote quality production. Come see for yourself.



On the left—

This block of young *Berckmans aurea nana* growing in our nursery illustrates the perfect stands of plants with conformation and eye appeal you can obtain by planting our strong well-established potted liners.

Note our classified ad offering lining-out stock in this issue.

We have 450 acres of choice nursery stock, both coniferous and broad-leaved with excellent conformation and eye appeal, all growing well-spaced in wide nursery rows, and millions of choice well-established potted liners. We also have thousands of container-grown plants consisting of a wide assortment of varieties.

Write for Our Complete Trade Lists

We cordially invite you to visit our nursery, look us over and give us an opportunity to serve you.

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It will pay you to be there, and it will also pay you to make your hotel reservations NOW. Indications are that our 1958 convention will again be the "largest ever."

Of all months, January is the heaviest convention month in Chicago, and hotel men advise us that the situation will be tight and early reservations necessary. Write now for your reservations to the Hotel La Salle, La Salle and Madison Sts., Chicago 2, Ill., and be sure to mention the nurserymen's meetings.

The meeting dates in 1958 will be Monday, Tuesday and Wednesday, January 13-14-15. Meetings of a number of allied associations will be held during the week. The registration desk will be open Sunday, January 12.

Illinois State Nurserymen's Association Annual Convention January 13-14-15, 1958

For the Ladies

Luncheon Program—January 15, 1958

Lecture on "Personality, Charm and Styling" by Mrs. Lois Etzold. (This is part of the convention program.)

The banquet on Wednesday evening will be a testimonial to Miles W. Bryant, retiring secretary of the Illinois State Nurserymen's Association.

National Landscape Nurserymen's Association Midwinter Conference January 12, 1958

Closed meetings of a number of allied national nurserymen's associations will also be held over the week-end.

ILLINOIS STATE NURSERYMEN'S ASSOCIATION

THE 1958 EASTERN NURSERYMEN'S CONVENTION

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For Program Advertising, write: Mr. Charles Godin
Adams Nursery
Westfield, Mass.

For General Information, write: Mrs. Marie M. Enberg
P. O. Box 335
Mount Kisco, N. Y.

COMING EVENTS

MEETING CALENDAR

December 2 and 3 — Minnesota State Nurserymen's Association, annual convention, Curtis hotel, Minneapolis, Minn.

December 3 to 5 — New York State Nurserymen's Association, short course, Cornell University, Ithaca, N. Y.

December 4 to 6 — Wisconsin Nurserymen's Association, annual convention, Hotel Schroeder, Milwaukee, Wis.

December 9 and 10 — Nebraska Association of Nurserymen, winter meeting, Cornhusker hotel, Lincoln, Neb.

December 10 and 11 — Arizona Nurserymen's Association, annual convention and short course, Student Union building, University of Arizona, Tucson.

January 2, 1958 — Connecticut Nurserymen's Association, winter meeting, Waverly Inn, Cheshire, Conn.

January 5 to 7 — North Carolina Nurserymen's Association, winter meeting, College Union building, North Carolina State College, Raleigh.

January 6 to 8 — Eastern nurserymen's convention, Hotel Roosevelt, New York, N. Y.

January 6 to 8 — Western Association of Nurserymen, annual convention, Hotel Muehlebach, Kansas City, Mo.

January 6 to 8 — Indiana Association of Nurserymen, winter meeting, Purdue University, Lafayette, Ind.

January 6 to 9 — American Pomological Society and Massachusetts Fruit Growers Association, joint annual meeting, Bancroft hotel, Worcester, Mass.

January 8 — Fifth annual conference on landscape architecture for nurserymen, Iowa State College, Ames, Ia.

January 8 — Maryland Nurserymen's Association, winter meeting, Southern hotel, Baltimore, Md.

January 8 to 10 — Indiana Arborists' Association, winter meeting, Purdue University, Lafayette, Ind.

January 9 and 10 — Oklahoma State Nurserymen's Association, winter meeting, Mayo hotel, Tulsa, Okla.

January 9 to 11 — Iowa Nurserymen's Association, winter meeting, Hotel Kirkwood, Des Moines, Ia.

January 12 — National Landscape Nurserymen's Association, winter meeting, Hotel La Salle, Chicago, Ill.

January 12 to 14 — New York State Arborists' Association, annual meeting and arborists' school, Statler Hall, Cornell University, Ithaca, N. Y.

January 12 to 15 — Canadian Association of Nurserymen, annual convention, Windsor hotel, Montreal, Quebec, Canada.

January 13 — National Mail Order Nurserymen's Association, Inc., winter meeting, Hotel La Salle, Chicago, Ill.

January 13 to 15 — Illinois State Nurserymen's Association, winter convention, Hotel La Salle, Chicago, Ill.

January 14 — Massachusetts Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

January 20 to 22 — Ohio State Uni-

[Continued on page 20]

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Christopher Stone
Condesa de Sastago
Countess Vandal
Crimson Glory
Dainty Bess
Duquesa de Penaranda
Eclipse
Edith Nellie Perkins
Editor McFarland
Ena Harkness
Etoile de Hollande
Frau Karl Druschki
Girona
Joanna Hill
K. A. Viktoria
Lulu
Margaret McGredy
Mme. Ed. Herriot
Mme. Jules Bouche
Mrs. Charles Bell
Mrs. E. P. Thom
Mrs. P. S. du Pont
Mrs. Sam McGredy
McGredy's Ivory
McGredy's Scarlet
McGredy's Yellow
Nigger Boy
Picture
Pink Dawn
Poinsettia
President Hoover
Radiance
Red Radiance
Shining Star
Signora
Sister Therese
Snowbird
Talisman
Texas Centennial
The Doctor
Virgo
Will Rogers

Nonpatented Floribundas

Betty Prior
Cecile Brunner
Charlie McCarthy
Else Poulsen
Eutin
Floradora
Frensham
Garnette
Improved Lafayette
Poulsen's Bedder
Red Ripples
Rose Elle
Royal Chinook
Snowbank
The Fairy

Nonpatented Climbers

Cl. American Beauty
Cl. Cecile Brunner
Cl. City of New York
Cl. Doubleloons
Cl. Etoile de Hollande
Cl. Gold Rush
Cl. New Blaze
Cl. New Dawn
Cl. Paul's Lemon Pillar
Cl. President Hoover
Cl. Snowbird
Cl. Talisman
Cl. White Dawn

Patented Hybrid Teas

Blanche Mailerin
Buccaneer
Burnaby
Capistrano
Charlotte Armstrong
Chrysler Imperial
Confidence
Dean Collins
First Love
Fort Knox
Fort Vancouver
Forty-Niner
Fred Edmunds
Fred Howard
Golden Masterpiece
Good News
Grande Duchesse Charlotte
Helen Traubel
Love Song
Lowell Thomas
Mirandy
Mme. Henri Guillot
Mojave
Montezuma
New Yorker
Nocturne
Peace
Pink Favorite
Queen Elizabeth
Roundelay
Saturnia
Sutters Gold
Tallyho
The Duke
Tiffany
White Knight

Patented Floribundas

Amy
Carrousel
Circus
Encore
Fashion
Fusilier
Gold Cup
Goldilocks
Jimmy Cricket
Ma Perkins
Pinkie
Pinocchio
Red Pinocchio
Spartan
Vogue
White Bouquet
World's Fair

Patented Climbers

Cl. Blossom Time
Cl. Chrysler Imperial
Cl. Coral Dawn
Cl. Crimson Glory
Cl. Dr. J. H. Nicolas
Cl. Gladiator
Cl. Golden Showers
Cl. High Noon
Cl. Parade
Cl. Pinkie
Cl. Spectacular

PETERSON & DERING • Rose Growers • Scappoose, Oregon

CARTWRIGHT NURSERIES

COLLIERVILLE, TENN.

Phone: Ulysses 3-235

FALL, 1957

All nursery stock is sold F.O.B. Collierville, Tenn.; however, we will, if desired, arrange for delivery of stock to purchaser. We have access to a large fleet of refrigerator trucks, which can be hired on a mileage basis, so as to provide very economical and safe transportation. In any event stock travels at the risk of the purchaser.

Our stock is individually graded and tagged by a competent superintendent before it is dug and is graded and handled as carefully as possible to insure delivery to you of top-quality stock in good condition. Claims made within 10 days of receipt of stock will receive careful consideration. Our grades are at least up to American Association standards and are often better. Come to the nursery and see our stock in the fields.

All prices are subject to change without notice and all prices are based on truck-load or carload quantities.

We have 850,000 B&B evergreens ready for market this season in our 1500-acre nursery.

CONIFERS

All of our Junipers are many times sheared, none of them less than eight times, and many of our arborvitae are also sheared. This stock is of specimen quality and guaranteed to please.

Arborvitae, orientalis Baker		Arborvitae, American Globe (globosa)		Juniper, excelsa stricta	
24 to 30 ins.	\$1.00	12 to 15 ins.	\$1.25	15 to 18 ins.	1.60
30 to 36 ins.	1.40	15 to 18 ins.	1.60	18 to 24 ins.	2.50
3 to 4 ft.	2.00	18 to 24 ins.	2.00	24 to 30 ins.	2.50
Arborvitae, orientalis Berckmans		Cedrus atlantica		Juniper, fastigiata	
(Berckmans Dwarf Golden)		2 to 3 ft.	1.50	24 to 30 ins.	2.50
12 to 15 ins.	1.00	3 to 4 ft.	2.50	30 to 36 ins.	3.50
15 to 18 ins.	1.25	4 to 5 ft.	3.50	3 to 4 ft.	4.00
18 to 24 ins.	1.60	Cedrus deodara		4 to 5 ft.	5.00
24 to 30 ins.	2.00	2 to 3 ft.	1.50	Juniper, virginiana repandens	
Arborvitae, orientalis Blue Cone		3 to 4 ft.	2.50	15 to 18 ins.	1.60
18 to 24 ins.	1.00	4 to 5 ft.	3.50	18 to 24 ins.	2.00
24 to 30 ins.	1.35	5 to 6 ft.	5.00	24 to 30 ins.	2.50
30 to 36 ins.	1.60	6 to 8 ft.	7.50	Juniper, sabina	
3 to 4 ft.	2.20	Cypress, Blue Lawson		12 to 15 ins.	1.50
Arborvitae, orientalis Bonita		24 to 30 ins.	1.75	15 to 18 ins.	1.75
15 to 18 ins.	1.25	Chamaecyparis Cyane Viridis		18 to 24 ins.	2.00
18 to 24 ins.	1.60	18 to 24 ins.	1.25	Juniper, sabina vonehron	
24 to 30 ins.	2.00	24 to 30 ins.	1.75	15 to 18 ins.	1.50
30 to 36 ins.	2.50	30 to 36 ins.	2.00	18 to 24 ins.	1.75
Arborvitae, orientalis Excelsa		Juniper, Andorra		24 to 30 ins.	2.00
30 to 36 ins.	1.50	15 to 18 ins.	1.20	Juniper, scopulorum kenyonii	
3 to 4 ft.	2.00	18 to 24 ins.	1.60	18 to 24 ins.	1.50
4 to 5 ft.	3.00	Juniper, Golden Canadian		24 to 30 ins.	2.00
5 to 6 ft.	4.00	15 to 18 ins.	1.20	30 to 36 ins.	2.50
Arborvitae, orientalis fruitlandi		Juniper, hetzi glauca		Juniper, sylvestris	
(Dark Green Berckmans)		15 to 18 ins.	1.25	2 to 3 ft.	1.50
18 to 24 ins.	1.50	18 to 24 ins.	1.75	3 to 4 ft.	2.00
24 to 30 ins.	1.75	24 to 30 ins.	2.25	4 to 5 ft.	3.00
30 to 36 ins.	2.25	Juniper, chinensis pfitzeriana		4 to 5 ft.	4.00
Arborvitae, orientalis newarkii		Many times sheared, very heavy		Juniper, virginiana	
24 to 30 ins.	1.25	12 to 15 ins.	1.10	15 to 18 ins.	1.50
30 to 36 ins.	1.50	15 to 18 ins.	1.50	18 to 24 ins.	2.00
3 to 4 ft.	2.00	18 to 24 ins.	2.00	24 to 30 ins.	2.50
4 to 5 ft.	3.00	24 to 30 ins.	2.75	Juniper, virginiana burkii, well-sheared	
5 to 6 ft.	4.00	30 to 36 ins.	3.50	2 to 3 ft.	1.50
Arborvitae, American Dark Green		Juniper, pfitzeriana Blue		3 to 4 ft.	2.00
24 to 30 ins.	1.50	12 to 15 ins.	1.10	Juniper, virginiana canariensis, well-sheared	
30 to 36 ins.	2.25	15 to 18 ins.	1.50	2 to 3 ft.	1.50
3 to 4 ft.	3.00	18 to 24 ins.	2.00	3 to 4 ft.	2.00
4 to 5 ft.	3.75	24 to 30 ins.	2.75	5 to 6 ft.	3.50
Arborvitae, American Pyramidal		30 to 36 ins.	3.50	Juniper, virginiana Dundee, well-sheared	
24 to 30 ins.	1.50	Juniper, pfitzeriana Golden		2 to 3 ft.	1.50
30 to 36 ins.	2.25	15 to 18 ins.	1.50	Juniper, virginiana glauca	
3 to 4 ft.	3.00	18 to 24 ins.	2.00	2 to 3 ft.	1.50
4 to 5 ft.	3.75	Juniper, pfitzeriana nana (Armstrong's)		3 to 4 ft.	2.00
Arborvitae, American compacta erecta		12 to 15 ins.	1.10	Pinus nigra (Austrian Pine)	
globosa		15 to 18 ins.	1.50	2 to 3 ft.	1.50
15 to 18 ins.	1.35	18 to 24 ins.	2.00	3 to 4 ft.	2.00
18 to 24 ins.	1.75	24 to 30 ins.	2.75	Pinus strobus (White Pine)	
24 to 30 ins.	2.25	Juniper, densa glauca		2 to 3 ft.	1.50
		2 to 3 ft.	1.75	3 to 4 ft.	2.00
		3 to 4 ft.	2.50		

BROAD-LEAVED EVERGREENS

broad-leaved evergreens are well-known stock. Most of them many years old, and the quality is guaranteed to you.

<i>grandiflora</i>	1.00
12 in.	1.25
<i>landi</i>	1.50
12 in.	1.50
<i>peruviana</i> , light grade	1.00
12 in.	1.50
<i>decora lactea</i>	1.00
12 in.	1.50
<i>francheti</i>	1.50
12 in.	1.50
<i>frailandi</i>	1.00
12 in.	1.50
<i>simoni</i>	1.00
12 in.	1.50
<i>glauca compactus</i>	1.50
12 in.	2.00
<i>coloratus</i>	1.00
12 in.	1.25
<i>patens</i>	1.00
12 in.	1.25
18 in.	1.50
24 in.	2.00
<i>burfordi</i>	1.00
12 in.	1.25
18 in.	1.50
24 in.	2.00
30 in.	2.75
36 in.	3.50
<i>femina</i>	1.50
12 in.	2.00
18 in.	2.50
24 in.	3.25
<i>convexa</i> (bullata), sheared, compact	1.00
12 in.	1.25
18 in.	1.75
24 in.	2.25
<i>helleri</i> , dwarf, 1-gal. can	1.00
12 in.	1.00
<i>latifolia</i>	1.00
12 in.	1.00
<i>Nitida</i> , selected type similar <i>convexa</i> , but stronger grower	1.00
12 in.	1.50
18 in.	2.00
<i>repandens</i> , dwarf, spread-compact	1.25
12 in.	1.75
<i>retundifolia</i> , well-sheared, sheared	.80
12 in.	1.00
18 in.	1.50
24 in.	2.00
30 in.	2.50
seedlings, sheared	1.50
12 in.	2.50
18 in.	3.50
24 in.	5.00
<i>Croceanburg</i>	2.00
12 in.	3.00
18 in.	4.00
24 in.	5.00

<i>Ilex East Palatka</i>	2 to 3 ft. \$2.00
	3 to 4 ft. 3.00
	4 to 5 ft. 4.00
	5 to 6 ft. 5.00
	6 to 8 ft. 7.50
	8 to 10 ft. 12.50
	10 to 12 ft. 17.50
<i>Ilex opaca howardi</i>	2 to 3 ft. 2.00
	3 to 4 ft. 3.00
	4 to 5 ft. 4.00
	5 to 6 ft. 5.00
<i>Ilex opaca Hume No. 2</i>	2 to 3 ft. 2.00
	3 to 4 ft. 3.00
	4 to 5 ft. 4.00
	5 to 6 ft. 5.00
<i>Ilex opaca Reynolds</i>	2 to 3 ft. 2.00
	3 to 4 ft. 3.00
<i>Ilex vomitoria</i> , well-sheared, very good	18 to 24 ins. 1.00
	24 to 30 ins. 1.50
	30 to 36 ins. 2.00
	3 to 4 ft. 2.50
	4 to 5 ft. 3.00
	5 to 6 ft. 4.00
<i>Ilex vomitoria nana</i> , very dwarf type	12 to 15 ins. 1.25
	15 to 18 ins. 1.75
<i>Ilex vomitoria Pride of Houston</i> , heavily sheared	18 to 24 ins. 1.00
	24 to 30 ins. 1.50
	30 to 36 ins. 2.00
	3 to 4 ft. 2.50
	4 to 5 ft. 3.00
<i>Illicium anisatum</i>	2 to 3 ft. 1.25
<i>Jasminum floridum</i>	15 to 18 ins. 1.00
	18 to 24 ins. 1.25
	24 to 30 ins. 1.50
<i>Ligustrum lucidum</i> (Black Wax)	24 to 30 ins. 1.00
	30 to 36 ins. 1.25
<i>Ligustrum lucidum</i> , Griffin type	24 to 30 ins. 1.00
	30 to 36 ins. 1.25
<i>Ligustrum lucidum</i> (Suwannee River)	15 to 18 ins. 1.75
	18 to 24 ins. 2.25
	24 to 30 ins. 2.75
<i>Laurocerasus caroliniana</i> (Cherry Laurel), heavily sheared	2 to 3 ft. 1.25
	3 to 4 ft. 1.50
	4 to 5 ft. 2.50
	5 to 6 ft. 3.50
	6 to 8 ft. 5.00
<i>Loropetalum Chinense</i> (Texas Fringe)	18 to 24 ins. 1.25
	24 to 30 ins. 1.50
	30 to 36 ins. 2.00
<i>Magnolia grandiflora</i>	2 to 3 ft. 2.00
	3 to 4 ft. 3.00
	4 to 5 ft. 4.00
	5 to 6 ft. 5.00
	6 to 8 ft. 7.50
<i>Magnolia glauca</i>	2 to 3 ft. 1.50
	3 to 4 ft. 2.50
	4 to 5 ft. 3.50
	5 to 6 ft. 5.00
	6 to 8 ft. 7.50
<i>Nandina domestica</i>	15 to 18 ins. .... .80
	18 to 24 ins. 1.00
	24 to 30 ins. 1.25
	30 to 36 ins. 1.50
	3 to 4 ft. 2.00
<i>Osmanthus fortunei</i>	18 to 24 ins. 1.25
	24 to 30 ins. 1.50
<i>Viburnum burkwoodi</i>	18 to 24 ins. 1.50
	24 to 30 ins. 1.75
	30 to 36 ins. 2.00

LINING-OUT STOCK

Liners—Potted

<i>Chamaecyparis Cyano Viridis</i> , 3-in. pot	\$.12 1/2
<i>Elaeagnus simoni</i> , 3-in. pot	.12 1/2
<i>Ilex fosteri</i> No. 2, 2 1/2-in. rose pot	.17 1/2
<i>Illicium anisatum</i> (Spring), 2 1/2-in. pot	.12 1/2
<i>Ilex crenata convexa</i> , 2 1/2-in. rose pot	.15
<i>Ilex crenata repandens</i> , 2 1/2-in. rose pot	.15
<i>Ilex opaca East Palatka</i> , 2 1/2-in. rose pot	.17 1/2
<i>Ilex opaca howardi</i> , 2 1/2-in. rose pot	.17 1/2
<i>Ilex opaca Hume No. 2</i> , 2 1/2-in. rose pot	.17 1/2
<i>Ilex vomitoria femina</i> , 2 1/2-in. rose pot	.12 1/2
<i>Ilex vomitoria Pride of Houston</i> , 2 1/2-in. rose pot	.12 1/2
<i>Laurocerasus caroliniana</i> , 2 1/2-in. pot	.12 1/2
<i>Lonicera yunnanensis</i> , ready for cans, 4-in. pot	.10
<i>Nandina domestica</i> , 2 1/2-in. rose pot	.15
<i>Thuja occidentalis nigra</i> , 2 1/2-in. rose pot	.15
<i>Thuja orientalis excelsa</i> , 2 1/2-in. rose pot	.15
<i>Thuja orientalis newarkii</i> , 2 1/2-in. rose pot	.15
<i>Thuja orientalis Bonita</i> , 2 1/2-in. rose pot	.15

Liners—Bed-Grown

<i>Euonymus alatus compactus</i> , 2-yr., 8 to 10 ins.	.15
<i>Ilex rotundifolia</i> , 2-yr., sheared, 8 ins.	.12 1/2
<i>Jasminum floridum</i> , 1-yr.	.12 1/2
<i>Euonymus</i> , small-leaved, spreading, 1-yr., 8 to 12 ins.	.10

Liners—Field-Grown

<i>Juniper, hetzi glauca</i> , 1-yr., 6 to 8 ins.	.10
<i>Juniper, hetzi glauca</i> , 1-yr., 8 to 12 ins.	.12
<i>Juniper, excelsa stricta</i> , 1-yr., 6 to 8 ins.	.10

Transplants—from field rows

<i>Ilex rotundifolia</i> , TT, 3-yr., 8 to 10 ins.	.25
<i>Ilex rotundifolia</i> , TT, 4-yr., 12 to 15 ins.	.35
<i>Juniper, Pfitzer</i> , T, 2-yr., 10 to 12 ins.	.35
<i>Juniper, hetzi glauca</i> , T, 2-yr., 10 to 12 ins.	.30

DECIDUOUS TREES, B&B

<i>Cornus florida</i> (White Dogwood)	2 to 3 ft. \$1.00
	3 to 4 ft. 1.50
	4 to 5 ft. 2.00
	5 to 6 ft. 2.75
	6 to 8 ft. 4.00
<i>Cornus florida rubra</i> (Pink-Flowering Dogwood)	24 to 30 ins. 1.50
	30 to 36 ins. 2.00
	3 to 4 ft. 3.00
<i>Magnolia soulangeana</i> (Pink Magnolia)	3 to 4 ft. 2.75
	4 to 5 ft. 3.50
	5 to 6 ft. 4.50
<i>Magnolia rustica rubra</i> (Red Magnolia)	4 to 5 ft. 3.50
	5 to 6 ft. 4.00

GALLON-SIZE CONTAINER-GROWN STOCK

80c each

<i>Arbutus</i> , <i>Berkmans</i>	
<i>Arbutus</i> , Blue Cone	
<i>Juniper, pfitzeriana</i>	
<i>Juniper, pfitzeriana compacta</i>	
<i>Juniper, excelsa stricta</i>	
<i>Juniper, fastigiata</i> (Improved Irish)	
<i>Juniper, hetzi glauca</i>	
<i>Juniper, sabina</i>	
<i>Magnolia grandiflora</i>	
<i>Ilex burfordi</i>	
<i>Ilex rotundifolia</i>	
<i>Ilex convexa</i> (bullata)	
<i>Ligustrum lucidum</i>	
<i>Pyracantha formosana</i> , red	
<i>Pyracantha lalandi</i> , orange	
<i>Gardenia fortunei</i>	

ARTWRIGHT NURSERIES,

COLLIERVILLE, TENN.

FALL, 1957, PRICE LIST

Seedlings

<i>Acer rubrum</i> , 2-yr., S., 6 to 12 in.	100	1000
<i>Berberis thunbergii atropurpurea</i> , 3-yr., S., 16 to 18 in.	11.00	90.00
<i>Crataegus phaeopyrum</i> (cordata), 1-yr., S., 12 to 16 in.	7.50	60.00
<i>Fagus sylvatica</i> , 1-yr., S., 6 to 8 in.	10.00	85.00
<i>Hammamelis virginiana</i> , 2-yr., S., 10 to 16 in.	6.00	50.00
<i>Ilex decidua</i> , 3-yr., S., 12 to 16 in.	7.50	60.00
<i>Ligustrum Dwarf Wintergreen</i> , 1-yr., T.	20.00	
<i>Myrica pensylvanica</i> , 1-yr., S., 3 to 6 in.	5.00	40.00
<i>Picea abies</i> , transplanted understock	10.00	85.00
<i>Picea glauca</i> , 3-yr., S., 6 to 8 in.	5.00	40.00
<i>Picea pungens glauca</i> , 2-yr., S., 4 to 6 in.	5.00	40.00
<i>Picea pungens glauca</i> , 4-yr., S., 6 to 8 in., hvy.	7.50	60.00
<i>Pinus flexilis</i> , 4-yr., S., 4 to 6 in.	7.00	60.00
<i>Pinus mughus</i> (True Dwarf Tyrolean), 1-yr., S., 3 to 4 in.	5.00	40.00
<i>Pinus nigra</i> , 3-yr., S., 4 to 8 in.	4.50	40.00
<i>Pinus sylvestris</i> , 2-yr., S., 4 to 6 in.	4.00	35.00
<i>Pinus thunbergii</i> , 2-yr., S., 6 to 8 in.	4.00	35.00
<i>Pseudotsuga taxifolia glauca</i> , 2-yr., S., 6 to 8 in.	6.50	50.00
<i>Quercus coccinea</i> , 1-yr., S., 6 to 8 in.	6.00	50.00
<i>Quercus palustris</i> , 1-yr., S., 6 to 12 in.	6.00	50.00
<i>Sorbus aucuparia</i> , 1-yr., S., 6 to 12 in.	6.00	50.00
<i>Sorbus aucuparia</i> , 1-yr., S., 12 to 16 in.	8.50	75.00
<i>Taxus capitata</i> , 2-yr., S., 3 to 6 in.	10.00	85.00
<i>Taxus capitata</i> , 3-yr., S., 6 to 8 in.	15.00	125.00
<i>Thuja occidentalis</i> , 2-yr., S., 4 to 6 in.	5.00	40.00
<i>Thuja orientalis</i> , transplanted understock	8.50	75.00

Ericaceous Plants

<i>Azalea mucronulatum</i> , 2-yr., T.	Per 10	Per 100
<i>Leucothoe catesbaei</i> , 2-yr., T.	\$3.00	\$30.00
<i>Pieris floribunda</i> , 2-yr., T.	3.00	25.00
<i>Rhododendron catawbiense</i> , 2-yr., T.	3.00	25.00
<i>Rhododendron hybridum</i> , red, 2-yr., T.	3.50	30.00

Bedded Stock 2-year Transplants

<i>Ilex crenata</i>	Per 10	Per 100
<i>Ilex crenata rotundifolia</i>	\$4.25	\$35.00
<i>Taxus cuspidata densiformis</i>	4.50	40.00
<i>Taxus cuspidata densiformis</i> , 3-yr., T.	6.00	55.00
<i>Taxus cuspidata F & F compacta</i>	4.75	40.00
<i>Taxus media brownii</i>	4.75	40.00
<i>Taxus media clifforti</i>	4.75	40.00
<i>Taxus media hatfieldi</i>	4.75	40.00
<i>Taxus media Vermeulen</i>	4.75	40.00

1-Year Grafts from 2 1/4-in. Pots

<i>Cornus florida rubra</i>	Per 10	Per 100
<i>Proser</i>	\$8.50	\$75.00
<i>Fagus sylvatica pendula</i>	7.50	65.00
<i>Fagus sylvatica riversi</i>	7.50	65.00
<i>Juniperus scopulorum Blue Haven</i>	7.50	65.00
<i>Juniperus virginiana pyramidiformis Hilli</i>	7.50	65.00
<i>Quercus robur fastigiata</i>	8.50	75.00
<i>Taxus canadensis pendula</i>	7.50	65.00

Well-Established Cuttings from 2 1/4-in. Pots

<i>Berberis julianae</i>	Per 10	Per 100
<i>Berberis thunbergii atropurpurea</i> Crimson Pygmy	\$3.50	\$25.00
<i>Buxus handsworthii</i>	3.00	20.00
<i>Chamaecyparis Cyano</i>	3.00	20.00
<i>Viridis</i>	3.00	20.00
<i>Chamaecyparis filifera aurea</i>	3.00	20.00
<i>Chamaecyparis plumosa aurea</i>	3.00	20.00
<i>Cotoneaster adpressa praecox</i>	3.00	20.00
<i>Cotoneaster conspicua</i>	3.00	20.00
<i>decidua</i>	3.00	20.00
<i>Cotoneaster horizontalis</i>	3.00	20.00
<i>perpusilla</i>	3.00	20.00
<i>Cotoneaster salicifolia</i>	3.00	20.00
<i>Euonymus alatus</i>	3.00	20.00
<i>Euonymus japonicus</i>	3.00	20.00
<i>Euonymus patens</i>	3.00	20.00
<i>Euonymus vegetus</i>	3.00	20.00
<i>Ilex aquifolium Ciliata</i>	5.00	40.00
<i>Ilex crenata convexa</i>	3.00	20.00
<i>Ilex crenata helleri</i>	3.00	20.00
<i>Ilex crenata microphylla</i>	3.00	20.00
<i>Ilex crenata rotundifolia</i>	3.00	20.00
<i>Ilex cornuta burfordii</i>	4.00	35.00
<i>Ilex glabra</i>	3.00	20.00
<i>Ilex opaca</i> (4 to 6 in. in following named varieties)	5.00	45.00
Arden		
Boyce Thompson No. 3		
Cheerful		
Christmas Tide		
Della Bradley		
Farago		
Femina No. 16		
Hedge Holly		
Hookstraw (Old Heavy Berry)		
Joyce		
Judge Brown		
Lake City		
Mae		
St. Mary		
<i>Ilex opaca mascula</i>	5.00	45.00
<i>Ilex opaca mascula Brown</i>	5.00	45.00
No. 9	5.00	45.00
*Sold only in combination with other varieties. On orders for fall shipment, a 10% discount will be allowed for all hollies shipped during the fall season. Prices for spring will be net as quoted above.		
<i>Juniperus depressa plumosa</i>	3.00	20.00
<i>Juniperus horizontalis Bar Harbor</i>	3.00	20.00
<i>Juniperus horizontalis wilsoni glauca</i>	3.00	20.00
<i>Juniperus pfitzeriana compacta</i>	3.00	22.50
<i>Juniperus pfitzeriana nana</i>	3.00	22.50
<i>Oxydendrum arboreum</i>	3.00	22.50
<i>Pieris japonica</i>	3.00	20.00
<i>Prunus laurocerasus schipkaensis</i>	3.50	30.00
<i>Pyracantha coccinea</i>	3.00	20.00
<i>Islandi</i>	3.00	20.00
<i>Rhododendron wilsoni</i>	4.50	40.00
<i>Sarcococca hookeriana humilis</i>	3.00	20.00
<i>Taxus canadensis stricta</i>	3.00	20.00
<i>Taxus cuspidata aurea</i>	3.00	20.00
<i>Taxus cuspidata densiformis</i>	3.00	20.00
<i>Taxus cuspidata F & F compacta</i>	3.00	20.00
<i>Taxus cuspidata nana</i>	3.00	20.00
<i>Taxus media clifforti</i>	3.00	20.00
<i>Taxus media Halloran</i>	3.00	20.00
<i>Taxus media hatfieldi</i>	3.00	20.00
<i>Taxus media henryi</i>	3.00	20.00
<i>Taxus media Hicksii</i>	3.00	20.00
<i>Taxus media Moon's columnaris</i>	3.00	20.00
<i>Taxus media Vermeulen</i>	3.00	20.00
<i>Taxus media waldii</i>	3.00	20.00
<i>Thuja occidentalis globosa Howe Type</i>	3.00	20.00
<i>Thuja occidentalis globosa novum</i>	3.00	20.00
<i>Thuja occidentalis nigra</i>	3.00	20.00
<i>Viburnum fragrans</i>	3.00	20.00

HESS' NURSERIES

BOX 788

MOUNTAIN VIEW, N. J.

versity's annual short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, O.

January 22 and 23 — Connecticut Nurserymen's Association, short course, University of Connecticut, Storrs.

January 22 to 24—Ohio Nurserymen's Association, winter convention, Neil House, Columbus, O.

January 23 and 24—New Jersey Association of Nurserymen, winter meeting, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

January 24—Western New York Nurserymen's Association, winter meeting, Sheraton hotel, Rochester, N. Y.

January 26 to 28—Virginia Nurserymen's Association, annual convention, Hotel John Marshall, Richmond, Va.

January 27 and 28—Idaho Association of Nurserymen, winter meeting and garden school, Basque Center hall, Boise, Ida.

January 28 and 29—Kentucky Nurserymen's Association, winter meeting, Phoenix hotel, Lexington, Ky.

January 29—Southern California nursery institute, University of California at Los Angeles.

January 29 to 31—Michigan Association of Nurserymen, winter convention, Fort Shelby hotel, Detroit, Mich.

January 30 and 31—Oregon Association of Nurserymen, annual convention, Multnomah hotel, Portland, Ore.

January 31—Northern California nursery institute, University of California at Berkeley.

February 2 to 4—Tennessee Nurserymen's Association, annual convention, Patten hotel, Chattanooga, Tenn.

February 3 and 4—National Arborist Association, winter meeting, Statler hotel, Washington, D. C.

February 4 — Delaware nurserymen's short course, Agricultural Hall, University of Delaware, Newark, Del.

February 4 and 5—Short course for nurserymen sponsored by Oregon State College, Corvallis.

February 4 to 6—New England Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

February 6 and 7 — West Virginia Nurserymen's Association, winter meeting, Daniel Boone hotel, Charleston, W. Va.

February 19 to 21—Midwestern chapter, National Shade Tree Conference, winter meeting, Hotel La Salle, Chicago, Ill.

February 20 and 21 — Massachusetts Nurserymen's Association, short course for nurserymen, Waltham field station, Waltham, Mass.

ILLINOIS CONVENTION PLANS

The Hotel La Salle, Chicago, Ill., will once again be the location for the winter convention of the Illinois State Nurserymen's Association. The dates for the meeting are January 13 to 15. According to Harleigh R. Kemmerer, association secretary, speakers for the program on Monday will be Arthur Briese, Hot Springs, Ark., and Briant Sando, Sando Co., [Continued on page 23]

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The Friendly Evergreens, by L. L. Kumlien. Seed collecting, propagation, digging and transplanting, root pruning, insects and diseases. 500 illus., 82 in color. 240 p. (1946)\$10.00

Christmas Trees for Pleasure and Profit, by Chapman and Wray. Suitable land, species to plant, care of stock, laying out plantation, harvesting and marketing. 215 p., illus. (1957)\$3.75

Azaleas: Kinds and Culture, by H. Harold Hume. Practical, up-to-date information. 72 illus., 200 p. (1948)\$6.00

Winter-Hardy Azaleas and Rhododendrons, by C. G. Bowers. Soil, planting and maintenance in the colder states. 120 p. (1954).....\$3.00

Hollies, by Harold Hume. Chapters include American holly varieties, English, Chinese, Japanese, miscellaneous evergreen hollies, deciduous, caffeine, propagation, pollination, culture and holly pests. 241 p., 72 illus. (1953)\$6.75

Trees for American Gardens, by Dr. Donald Wyman. Botanical and common names of 745 recommended trees. Secondary list of 1,600. Bloom, ornamental fruit, foliage colors, etc. 376 p. (1951).....\$8.00

Shrubs and Vines for American Gardens, by Dr. Donald Wyman. Planting guide for nurserymen. Recommends 1,100 species and varieties; secondary list of 1,700. 800 blooming dates in sequence. Hardiness zone maps. 100 illus., 442 p. (1949)\$8.00

PROPAGATION

Plant Propagation, by Mahlstede and Haber. Basic principles and details of practice. New techniques of propagation, producing hybrids and seed production. 413 p., 188 illus. (1957).....\$7.50

Plant Propagation Practices, by James S. Wells. Propagating unit equipment. Basic propagating principles. Detailed procedures for a select group of plants. 344 p., illus. (1955)\$7.50

Propagation of Plants, by M. G. Kains and L. M. McQuesten. Reference for propagators in nursery and greenhouse; also nursery management and pest control. 637 p., 375 illus., revised ed. (1942).....\$6.00

Plant Breeding for Everyone, by John Y. Beaty. How to find and develop new plant varieties. Covers testing, naming, introducing and patenting new varieties and the technique of hybridization. 102 p., illus. (1954)\$2.75

INSECTS AND DISEASES

Plant Disease Handbook, by Cynthia Westcott. Detection of diseases on trees, shrubs, vines, flowers. Illus., 746 p. (1950)\$10.00

Diseases and Pests of Ornamental Plants, by Dr. Bernard Dodge and H. W. Rickett. Diseases, insects and control measures. Describes in alphabetical order pests affecting some 600 species of plants. Illus., 838 p., revised ed. (1949)\$6.00

The Gardener's Bug Book, by Cynthia Westcott. Dictionary of pesticides and how to apply. Check list of pests and their control. 36 color plates, 94 line drawings. 597 p. (1956)\$7.50

LANDSCAPE AND DESIGN

Art of Home Landscape, by Garrett Eckbo. Home planning, case studies, foundations, surfacing, enclosure, plants and planting. Photos, drawings and sketches. 278 p. (1956)\$5.95

Ground Cover Plants, by Dr. Donald Wyman. Describes 200 kinds of woody plants and herbaceous perennials for sun and shade. Hardiness, planting and maintenance. 175 p. (1956)\$4.75

Lawn and Landscaping Handbook, by T. H. Everett. Grasses, lawns, compost, mowing, foundation planting, fertilizing, diseases and pests. Diagrams and photos. 144 p. (1956)\$2.00

Complete Home Landscape and Garden Guide, by R. P. Korboob. Edited by E. L. D. Seymour. Landscape sketching, garden plans and designing. 368 p. (1954)\$3.95

Landscape Plans for Small Homes, by Ralph Bailey. General plans, including garden features and planting keys. 128 p. (1954)\$2.00

Small Home Landscape, by P. J. and A. B. McKenna. Landscaping problems—lawn, trees, flowers, shrubs, vegetables and fruits, soils, grading and construction. 144 p., illus. (1953).....\$2.00

Landscape Sketching, by Arthur Black. Shows fundamental pencil strokes and how to apply to component parts of landscape. Illus. 109 p. (1951)\$5.75

Landscaping Your Home (Sunset Magazine). Many tested ideas for home landscaping. 250 illus. Paper bound. (1950)\$1.00

MISCELLANEOUS

Operating a Garden Center, by John J. Pinney. This popular series of articles appeared in the American Nurseryman during the past year and is now printed in book form. The author has made additions to the original articles and numerous illustrations have been added. Every phase of garden center operation is covered. It contains valuable ideas for the beginner in this work as well as for those already operating a garden center. 125 p., 61 illus..\$3.00

Principles of Nursery Management, by W. P. Duruz. Presents the general procedure in the nursery, including growing of seedlings, moving and storing of nursery stock, grading, storage and shipping. Chapters on selling nursery stock and business management. 176 p., illus. (1953)\$3.50

The Pruning Manual, by E. P. Christopher. A revised, up-to-date work based on The Pruning Manual, by L. H. Bailey. Provides the most comprehensive and authoritative information available on pruning all temperate-zone fruits, shade trees and ornamental shrubs. Sections are devoted to forestry, grafting, root pruning, wound treatment and tools. 320 p., illus. (1954)\$5.00

Beneath the Greenhouse Roof, by C. H. Potter. Covers construction, ventilation, water, shade and electrical equipment. Also propagation, soil, plant feeding, transplanting and potting. 246 p., illus. (1957)\$5.95

Seed and Potting Composts, by W. J. C. Lawrence and J. Newell. Preparation and use of John Innes composts, with special reference to soil sterilization. Illus., 160 p. (1950)\$2.00

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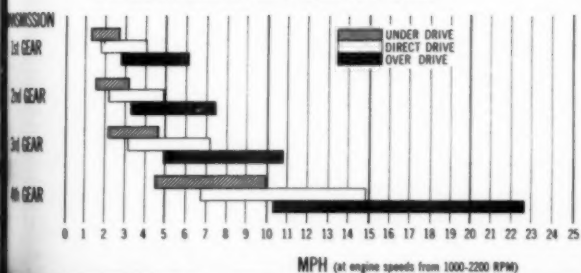


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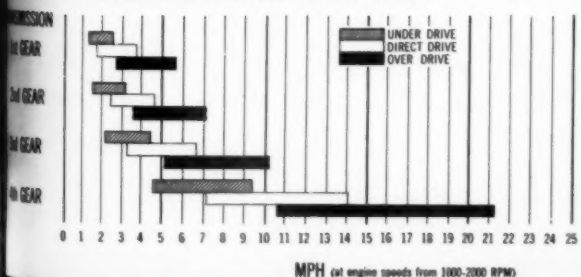
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On Tuesday, Dr. William McGovern, professor of political science, Northwestern University, Evanston, Ill., and Orvel H. Cockrel, Watt Publishing Co., Mount Morris, Ill., will present talks. Wednesday's program will be conducted by the executive officers of the American Association of Nurserymen and will include discussions of highway landscaping.

The banquet Wednesday evening will be a testimonial to Miles W. Bryant, Bryant Nursery, Princeton, Ill., who served as secretary of the I. S. N. A. from 1930 to 1957. Entertainment for the banquet has been arranged by Victor E. de St. Aubin, of Eugene A. de St. Aubin & Bro., Addison, Ill.

The wives of the conventioners will attend a special luncheon Wednesday, January 15. Mrs. Lois Etzold, Fort Wayne, Ind., will give a lecture on "Personality, Charm and Styling." The ladies are also urged to attend the luncheons on Monday and Tuesday, as the speeches will be of interest to both men and women. Numerous exhibits of nursery stock and equipment will be on display.

NEBRASKA SPEAKERS

The winter meeting of the Nebraska Association of Nurserymen, to be held December 9 and 10 at the Cornhusker hotel, Lincoln, Neb., will open Monday morning, December 9, with a business meeting. Featured speakers on the program will be Dr. Richard P. White, executive vice-president, American Association of Nurserymen; Ted Wilding, landscape architect, of the Nebraska state highway department; Vern Moseman, C. P. A., who will discuss tax savings for small businessmen, and Eugene Jockens, who will speak on sprinkler irrigation. Dr. James Chubb, pastor, Trinity Methodist church, Grand Island, Neb., will present an address, "Conquest of Fear," at the banquet. A panel discussion is scheduled as the last event of the meeting.

JOINT FRUIT MEETING

According to George M. Kessler, secretary-treasurer of the American Pomological Society, the group will hold its annual meeting jointly with the Massachusetts Fruit Growers Association January 6 to 9 at the Bancroft hotel, Worcester, Mass. There will be an open executive committee dinner meeting Monday evening, January 6, and a business meeting on the afternoon of January 8. A

[Continued on page 26]

DON'T FORGET LAST YEAR'S FRIGHTFUL LOSSES FROM WINTER DAMAGE!

Last year, millions of dollars' worth of fine planted stock suffered the abuses of winter burn and sunscald through neglect and ignorance.

Millions of dollars' worth of transplanted and established stock may also succumb this year, through ignorance and neglect! Plantsmen who protected their trees last winter saved thousands of dollars of plant material.

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2000 <i>Abies fraseri</i> , 2-yr., S., 2 to 3 ins.06	.05	200 <i>Euonymus radicans vegetus</i> , 1-yr., T., 6 to 9 ins.15	
200 <i>Acer dissectum atropurpureum</i> , 1-yr., grafts ....	.90		2000 <i>Euonymus radicans vegetus</i> , 2-yr., T., 6 to 9 ins. ....	.35	
2000 <i>Acer ginnala</i> , 1-yr., S., 6 to 9 ins. ....	.07	.06	3000 <i>Exochorda grandiflora</i> , 1-yr., T., 6 to 9 ins. ....	.10	
500 <i>Acer palmatum atropurpureum</i> , 2-yr., grafts	1.75	1.50	200 <i>Exochorda wilsoni</i> , 2-yr., grafts ....	.75	
500 <i>Acer palmatum atropurpureum</i> , 1-yr., grafts ....	.90		1000 <i>Fagus sylvatica</i> , 1-yr., S., 6 to 9 ins. ....	.09 1/2	
500 <i>Acer palmatum atropurpureum</i> , selected seedlings, 3-yr., T., 6 to 9 ins. ....	.75		300 <i>Fagus sylvatica riversi</i> , 2-yr., grafts	1.75	
8000 <i>Acer platanoides</i> , 1-yr., S., 6 to 9 ins. ....	.07	.06	1000 <i>Forsythia fortunei</i> , 2-yr., T., 6 to 9 ins. ....	.10	
6000 <i>Acer platanoides</i> , 2-yr., T., 6 to 9 ins. ....	.15	.14	1000 <i>Forsythia intermedia</i> , 2-yr., T., 6 to 9 ins. ....	.10	
5000 <i>Acer pseudoplatanus</i> , 2-yr., T., 6 to 9 ins. ....	.15	.14	2300 <i>Forsythia Lynwood Gold</i> , 2-yr., T., 6 to 9 ins. ....	.18	
1000 <i>Acer saccharum</i> , 3-yr., TT., 6 to 9 ins. ....	.35	.30	300 <i>Forsythia spectabilis</i> , 2-yr., T., 6 to 9 ins. ....	.10	
500 <i>Azalea amoena</i> , 2-yr., T., 6 to 9 ins. ....	.35		1000 <i>Forsythia Spring Glory</i> , 1-yr., T., 6 to 9 ins. ....	.18	
500 <i>Azalea arnoldiana</i> , 2-yr., T., 6 to 9 ins. ....	.35		650 <i>Forsythia suspensa</i> , 2-yr., T., 6 to 9 ins. ....	.15	
500 <i>Azalea Fedora</i> , 2-yr., T., 6 to 9 ins. ....	.40		3000 <i>Ginkgo biloba</i> , 1-yr., S., 4 to 6 ins. ....	.07 1/2	
500 <i>Azalea Hinodegiri</i> , 2-yr., T., 6 to 9 ins. ....	.35		500 <i>Gleditsia triacanthos</i> , 3-yr., TT., 6 to 9 ins. ....	.25	
600 <i>Azalea Hinodegiri</i> , 3-yr., T., 6 to 9 ins. ....	.65	.60	575 <i>Hamamelis japonica</i> , 2-yr., T., 6 to 9 ins. ....	.15	
500 <i>Azalea mollis</i> , yellow, 2-yr., T., 6 to 9 ins. ....	.35		1600 <i>Hamamelis virginiana</i> , 1-yr., T., 6 to 9 ins. ....	.10	
500 red, 2-yr., T., 6 to 9 ins. ....	.35		600 <i>Hydrangea A.G.</i> , 2-yr., T., 6 to 9 ins. ....	.18	
1000 yellow, 3-yr., T., 6 to 9 ins. ....	.50	.45	1000 <i>Hydrangea P.G.</i> , 2-yr., T., 6 to 9 ins. ....	.30	
800 red, 3-yr., T., 6 to 9 ins. ....	.50	.45	500 <i>Ilex convexa</i> , 2-yr., T., 6 to 9 ins. ....	.25	
500 <i>Aralia pentaphylla</i> , 1-yr., S., 6 to 9 ins. ....	.12		500 <i>Ilex crenata</i> , 2-yr., T., 6 to 9 ins. ....	.25	
5000 <i>Aronia arbutifolia</i> , 1-yr., S., 6 to 9 ins. ....	.08	.07	2000 <i>Ilex crenata microphylla</i> , 2 1/4-in. pots ....	.15	
1800 <i>Benzoin aestivale</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	500 <i>Ilex glabra</i> , 2-yr., T., 6 to 9 ins. ....	.25	
5000 <i>Berberis thunbergii</i> , 1-yr., S., 6 to 9 ins. ....	.05	.03	500 <i>Ilex latifolia</i> , 2-yr., T., 6 to 9 ins. ....	.25	
10,000 <i>Berberis thunbergii</i> , 2-yr., T., 6 to 9 ins. ....	.08 1/2	.07 1/2	3600 <i>Ilex opaca</i> , 1-yr., T., 6 to 9 ins. ....	.15	
5000 <i>Berberis thunbergii atropurpurea</i> , 2-yr., S., 6 to 9 ins. ....	.07	.05	500 <i>Ilex opaca</i> , 2-yr., T., 6 to 9 ins. ....	.35	
5000 2-yr., S., 9 to 12 ins. ....	.08	.06	1000 <i>Ilex rotundifolia</i> , 2-yr., T., 6 to 9 ins. ....	.25	
5000 2-yr., S., 12 to 18 ins. ....	.10	.09	9000 <i>Ilex verticillata</i> , 1-yr., S., 6 to 9 ins. ....	.07 1/2	
3000 2-yr., T., 10 to 12 ins. ....	.10	.08 1/2	400 <i>Juniperus depressa plumosa</i> , 2-yr., T., 6 to 9 ins. ....	.35	
1000 <i>Buxus Newport Blue</i> , 3-yr., TT., 6 to 9 ins. ....	.40	.35	250 <i>Juniperus excelsa stricta</i> , 2-yr., T., 6 to 9 ins. ....	.35	
2000 <i>Callicarpa japonica</i> , 1-yr., S., 6 to 9 ins. ....	.07	.06	1500 <i>Juniperus glauca hetzi</i> , 2-yr., T., 6 to 9 ins. ....	.40	
5000 <i>Calycanthus floridus</i> , 1-yr., S., 6 to 9 ins. ....	.12 1/2	.10	420 <i>Juniperus hibernica</i> , 2-yr., T., 10 to 16 ins. ....	.28	
200 <i>Caragana arborescens</i> , 2-yr., S., 6 to 9 ins. ....	.10	.08	575 <i>Juniperus pfitzeriana</i> , 2-yr., T., 5 to 9 ins. ....	.35	
1500 <i>Celastrus orbiculata</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	1500 <i>Juniperus pfitzeriana compacta</i> , 2-yr., T., 5 to 9 ins. ....	.40	
5000 <i>Celastrus scandens</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	200 <i>Juniperus sabina</i> , 2-yr., T., 6 to 9 ins. ....	.35	
1000 <i>Celtis laevigata</i> , 1-yr., S., 6 to 9 ins. ....	.10		1450 <i>Koeleruteria paniculata</i> , 1-yr., S., 6 to 9 ins. ....	.07 1/2	
1000 <i>Cercidiphyllum japonicum</i> , 1-yr., S., 6 to 9 ins. ....	.07	.06	3000 <i>Leucothoe catesbaei</i> , 2 1/4-in. pots ....	.20	
1800 <i>Ceris chinensis</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	3500 <i>Ligustrum Vicary</i> , 2-yr., T., 6 to 9 ins. ....	.12	
171 <i>Chamaecyparis filifera</i> , 2-yr., T., 8 to 12 ins. ....	.30		1000 <i>Liquidambar styraciflua</i> , 1-yr., S., 6 to 9 ins. ....	.12	
2000 <i>Chamaecyparis plumosa</i> , 2-yr., T., 8 to 12 ins. ....	.30	.25	1100 <i>Liquidambar styraciflua</i> , 3-yr., TT., 6 to 9 ins. ....	.35	
275 <i>Chamaecyparis plumosa argentea</i> , 2-yr., T., 6 to 10 ins. ....	.30	.25	400 <i>Liriodendron tulipifera</i> , 3-yr., TT., 6 to 9 ins. ....	.35	
3000 <i>Chamaecyparis plumosa aurea</i> , 2-yr., T., 6 to 10 ins. ....	.30	.25	500 <i>Lonicera korolkowi</i> , 2-yr., T., 6 to 9 ins. ....	.12	
1000 <i>Chamaecyp. plumosa Gold Dust</i> , 2-yr., T., 6 to 10 ins. ....	.30	.25	450 <i>Mahonia aquifolium</i> , 2-yr., T., 6 to 9 ins. ....	.25	
4000 <i>Chionanthus virginicus</i> , 2-yr., S., 6 to 9 ins. ....	.20	.18	300 <i>Malus Almey</i> , whips, 3 to 4 ft. ....	.75	
6000 <i>Chionanthus virginicus</i> , 1-yr., S., 6 to 9 ins. ....	.15	.12 1/2	300 <i>Malus elaei</i> , whips, 3 to 4 ft. ....	.75	
3000 <i>Clethra alnifolia rosea</i> , 2 1/4-in. pots ....	.25	.22 1/2	300 <i>Malus Red Silver</i> , whips, 3 to 4 ft. ....	.75	
4000 <i>Clematis paniculata</i> , 1-yr., T., 6 to 9 ins. ....	.25	.22 1/2	300 <i>Malus Van Eseltine</i> , whips, 3 to 4 ft. ....	.75	
10,000 <i>Cornus florida</i> , 1-yr., S., 6 to 9 ins. ....	.06	.05	2300 <i>Pachysandra Silver Edge</i> , 2 1/2-in. pots ....	.18	
10,000 <i>Cornus florida</i> , selected understocks ....	.08 1/2	.07 1/2	500 <i>Philadelphus Albatre</i> , 2-yr., T., 6 to 9 ins. ....	.15	
1000 <i>Cornus florida rubra</i> , 1-yr., grafts ....	.90	.75	300 <i>Philadelphus Argentine</i> , 2-yr., T., 6 to 9 ins. ....	.15	
1000 <i>Cornus florida rubra</i> , 3-yr., grafts, 18 to 24 ins.	2.00	1.75	4000 <i>Phil. coronarius aureus</i> , 2-yr., T., 6 to 9 ins. ....	.25	
200 <i>Cornus paniculata</i> , 1-yr., S., 6 to 9 ins. ....	.18		1000 <i>Physocarpus monogynus</i> , 2-yr., T., 6 to 9 ins. ....	.12	
200 <i>Cotoneaster dielsiana</i> , 1-yr., S., 6 to 9 ins. ....	.15		1800 <i>Picea canadensis</i> , 2-yr., S., 2 to 3 ins. ....	.06	
1000 <i>Cotoneaster divaricata</i> , 1-yr., S., 6 to 9 ins. ....	.09		1400 <i>Picea canadensis</i> , 3-yr., T., 4 to 8 ins. ....	.10	
1500 <i>Cotoneaster praecox</i> , 2-yr., T., 8 to 12 ins. ....	.50	.45	9000 <i>Picea excelsa</i> , 2-yr., S., 2 to 5 ins. ....	.04	
100 <i>Cryptomeria japonica lobbi compacta</i> , 1-yr., grafts ....	.75		3500 3-yr., T., 3 to 7 ins. ....	.09	
200 2-yr., grafts	1.00		5000 4-yr., T., 7 to 15 ins. ....	.12	
8000 <i>Cydonia japonica</i> , 2-yr., T., 12 to 18 ins. ....	.10	.09 1/2	7000 <i>Picea excelsa</i> , 3-yr., S., 3 to 6 ins. ....	.05	
800 <i>Cytisus battandieri</i> , 1-yr., T., 6 to 9 ins. ....	.50		10,000 <i>Picea pungens</i> , 2-yr., S., 2 to 4 ins. ....	.06	
700 <i>Deutzia lemoinei</i> , 2-yr., T., 6 to 9 ins. ....	.12	.10	3200 <i>Picea pungens</i> , 3-yr., T., 3 to 6 ins. ....	.13	
150 <i>Deutzia Pride of Rochester</i> , 2-yr., T., 6 to 9 ins. ....	.10		1000 <i>Picea pungens moerheimi</i> , 1-yr., bedded grafts	1.25	
2000 <i>Elaeagnus angustifolia</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	300 2-yr., bedded grafts	1.50	
300 <i>Elaeagnus umbellata</i> , 1-yr., S., 6 to 9 ins. ....	.10		7000 2-yr., T., 6 to 9 ins. ....	.12	
3000 <i>Euonymus alatus</i> , seed-grown, 2-yr., T., 6 to 9 ins. ....	.15	.14	1500 3-yr., T., 6 to 9 ins. ....	.40	
300 <i>Euonymus alatus compactus</i> , 2-yr., T., 6 to 9 ins. ....	.30		2000 <i>Pinus mughus</i> , true dwarf type, 2-yr., S., 1 1/2 to 3 ins. ....	.07	
1000 <i>Euonymus alatus compactus</i> , 3-yr., T., 12 to 18 ins. ....	.45	.40	5000 <i>Pinus mughus</i> , true dwarf type, very light. ....	.05	
100 <i>Euonymus atropurpureus</i> , 1-yr., S., 6 to 9 ins. ....	.10		800 <i>Pinus nigra</i> , 3-yr., S., 6 to 10 ins. ....	.07	
			1400 <i>Pinus nigra (austriaca)</i> , 2-yr., S., 2 to 4 ins. ....	.06	
			1500 <i>Pinus strobus</i> , 3-yr., S., 5 to 10 ins. ....	.05	
			4000 <i>Pinus strobus</i> , 3-yr., T., 3 to 5 ins. ....	.09	
			2000 <i>Pinus strobus</i> , 4-yr., T., 8 to 14 ins. ....	.12	

R SPRING, 1958

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Pinus thunbergi, 2-yr., S., 3 to 6 ins.	\$0.07	\$0.06	1400 Thuja occidentalis woodwardi, TT.,		
Pinus thunbergi, 2-yr., T.	.18	.15	6 to 9 ins.	\$0.40	\$0.35
Prunus Amanogawa, 1-yr., whips, 2 to 3 ft.	.75		9000 Tilia cordata, 1-yr., S.	.18	.15
Prunus Kwanan, 1-yr., whips, 18 to 24 ins.	.50		1600 Tilia tomentosa, 1-yr., S.	.20	
1-yr., whips, 2 to 3 ft.	.75		8000 Tsuga canadensis, 2-yr., S., 3 to 4 ins.	.10	.09
Prunus tomentosa, 1-yr., S.	.15	.12 1/2	4000 4-yr., T., 8 to 12 ins.	.35	.30
Pseudotsuga douglasii, 2-yr., S., 3 to 6 ins.	.07	.06	2000 3-yr., T.	.25	.20
3-yr., T., 4 to 7 ins.	.09	.08	5000 Tsuga caroliniana, 2-yr., T.	.30	.25
4-yr., T., 8 to 14 ins.	.11	.10	5000 Tsuga sieboldi, 2-yr., light seedlings	.04	.03
Quercus darlingtonia, 1-yr., S.	.15		8000 Viburnum americanum, 1-yr., S.	.12	.10
Quercus palustris, 1-yr., S.	.07 1/2	.07	2000 Viburnum carlesii, 2-yr., S., 4 to 6 ins.	.15	.12 1/2
Rhamnus cathartica, 2-yr., T.	.10	.09	2000 2-yr., S., 6 to 8 ins.	.20	.17 1/2
Ribes alpinum, 2-yr., T., 6 to 9 ins.	.15	.12	1000 2-yr., T., S.	.30	.25
Rosa rugosa, 1-yr., S.	.05 1/2	.04 1/2	600 3-yr., T., S., 15 to 18 ins.	.75	.60
Rosa setigera, 1-yr., S.	.08	.07 1/2	200 Viburnum cassinoides, 1-yr., S.	.10	
Sorbus aucuparia, 1-yr., S.	.07	.06	5000 Viburnum dentatum, 1-yr., S.	.09	.08
2-yr., T.	.20	.18	6000 Viburnum dilatatum, 1-yr., S.	.09	.08
whips, 3 to 4 ft.	.50		Viburnum molle, 2-yr., S.	.10	.09
whips, 4 to 5 ft.	.75		4000 Viburnum opulus, 1-yr., S.	.10	.09
Spiraea foebeli, 2-yr., T., 6 to 9 ins.	.12	.10	500 Viburnum opulus nanum, 2-yr., T., 4 to 6 ins.	.20	.18
Stephanandra incisa crispata, 2 1/4-in. pots	.28	.25	500 Viburnum opulus sterile, 2-yr., T., 4 to 6 ins.	.12	.10
Styrax japonica, 1-yr., S.	.15	.12 1/2	8000 Viburnum setigerum, 1-yr., S.	.18	.15
Symphoricarpos chenaultii, 2-yr., T.,			1000 Viburnum sieboldi, 1-yr., S.	.25	
6 to 9 ins.	.10	.07 1/2	1200 Viburnum tomentosum, 2-yr., T., 6 to 9 ins.	.15	
Syringa vulgaris, 1-yr., S.	.09	.08	300 Viburnum tomentosum plicatum,		
Taxus cuspidata, 1-yr., T.	.25	.20	2-yr., T., 6 to 9 ins.	.25	
Taxus cuspidata, 2-yr., T.	.30	.27 1/2	1000 Viburnum wrightii, 1-yr., S.	.10	
Taxus cuspidata, Barnes strain, 2-yr., T.,			1000 2-yr., T.	.18	
5 to 10 ins.	.30	.27 1/2	500 2-yr., grafts	.75	.60
Taxus cuspidata capitata, 2-yr., S.	.12	.10	2000 Weigela Bristol Ruby, 1-yr., C.	.25	.22 1/2
2-yr., T.	.30	.25	1200 Weigela Eva Rathke, 2-yr., T., 6 to 9 ins.	.15	.12
3-yr., T.	.40	.37 1/2	300 Weigela hendersonii, 2-yr., T., 6 to 9 ins.	.15	
4-yr., T., 6 to 10 ins.	.50	.45	1000 Weigela vaniceki, 2-yr., T., 12 to 18 ins.	.25	
Taxus cuspidata brownii, 1-yr., T.	.25	.20	1000 Weigela vaniceki, 1-yr., T., 18 to 24 ins.	.25	
Taxus cuspidata brownii, 2-yr., T., 5 to 7 ins.	.30	.27 1/2	750 Wistaria sinensis, 1-yr., S.	.05 1/2	.04 1/2
Taxus cuspidata columnaris, 2-yr., T.,			500 Wistaria sinensis, 1-yr., grafts	.35	
5 to 9 ins.	.30	.27 1/2	200 Wistaria sinensis alba, 1-yr., grafts	.40	
Taxus cuspidata nana, 3-yr., T.	.45	.40	9000 Zelkova serrata, 2-yr., T.	.20	.18
Taxus cuspidata nana, 2-yr., T., 4 to 7 ins.	.35	.30			
Taxus cuspidata thayerae, 3-yr., T.	.45	.40			
Taxus densiformis, 1-yr., T.	.30				
Taxus fastigiata, 2-yr., T., 5 to 9 ins.	.30	.27 1/2			
Taxus intermedia, 1-yr., T.	.25	.20			
Taxus intermedia, upright, 2-yr., T.,					
5 to 10 ins.	.30	.27 1/2			
Taxus media Halloran, 2-yr., T.	.30	.27 1/2			
Taxus media hatfieldi, 3-yr., T.	.45	.40			
Taxus media hatfieldi, 2-yr., T., 5 to 9 ins.	.30	.27 1/2			
Taxus media hatfieldi, 1-yr., T.	.25	.20			
Taxus media hicksii, 1-yr., T.	.25	.20			
Taxus microphylla, 3-yr., T.	.45	.40			
Taxus Moon's columnaris, 2-yr., T.,					
5 to 8 ins.	.30				
Taxus wellesleyana, 2-yr., T., 5 to 9 ins.	.30				
Thuja occidentalis, 3-yr., T., 4 to 9 ins.	.15	.12 1/2			
Thuja occidentalis Booth Globe, 2-yr., T.,					
6 to 12 ins.	.30	.25			
Thuja occidentalis compacta, 2-yr., T.,					
6 to 12 ins.	.30	.25			
Thuja occidentalis elegantissima,					
2-yr., T., 8 to 12 ins.	.30	.25			
Thuja occidentalis spiralis, 2-yr., T.,					
8 to 14 ins.	.30				
Thuja occidentalis wareana plicata,					
2-yr., T., 6 to 10 ins.	.30	.25			
Thuja occidentalis woodwardi, 2-yr., T., 6 to					
10 ins.	.30	.25			

POT GRAFTS

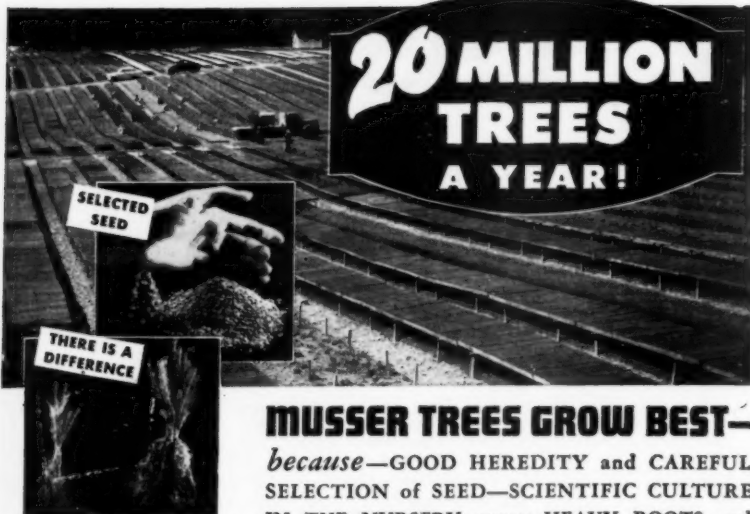
Pot grafts for shipment after May 1, 1958.

	Each 100 rate
1000 Acer palmatum atropurpureum	\$0.65
500 Acer dissectum, atropurpureum	.75
500 Cedrus atlantica glauca	.60
500 Cornus florida alba plena	.50
5000 Cornus florida rubra	.50
2000 Cornus florida Prosser, new red	.65
1000 Chamaecyparis obtusa gracilis	.50
1000 Juniperus chinensis sargentii	.60
1000 Juniperus chinensis keteleeri	.50
1000 Juniperus Hill's pyramidalis	.50
1000 Picea moerheimii	1.00
1000 Rhododendron hybrids, cuttings, 3-in. pots	.90
1000 Viburnum burkwoodii	.45
300 Viburnum bitchiense	.50
1000 Viburnum carlesii	.45
500 Viburnum chenaultii	.45
500 Viburnum juddi	.50
300 Viburnum plicatum grandiflorum	.50

Note:—This list of lining-out stock is accurate as of Nov. 15, 1957. In many items the quantities are small and will be picked up quickly. Send orders in soon to avoid disappointment. Thirty of a variety takes the hundred rate, excepting 1-yr. deciduous seedlings, which are priced in lots of 25. There will be an additional charge for less than thirty of a variety. This list cancels all previous lining-out lists. Usual prices. We are wholesale only.

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Bundle of 15 Musser seedlings, at right, compared with bundle of 15 ordinary seedlings.

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	Per 100	Per 1000		Per 100	Per 1000
● SPECIAL STRAIN SCOTCH PINE					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.					
2-yr., S., 4 to 8 ins.	\$ 7.00	\$ 35.00			
4-yr., T., 8 to 14 ins.	20.00	100.00			
● MUGHO PINE					
4-yr., S., 5 to 10 ins.	10.00	50.00			
5-yr., T., 6 to 12 ins.	25.00	125.00			
● AUSTRIAN PINE					
3-yr., S., 8 to 14 ins.	9.00	45.00			
● BLACK HILLS SPRUCE					
3-yr., S., 4 to 8 ins.	7.00	35.00			
4-yr., S., 5 to 10 ins.	10.00	50.00			
4-yr., T., 5 to 10 ins.	17.00	85.00			
● NORWAY SPRUCE—Fast-growing					
Special strain of our own collection.					
2-yr., S., 5 to 10 ins.	7.00	35.00			
3-yr., S., 8 to 14 ins.	10.00	50.00			
4-yr., T. (2-2), 10 to 14 ins.	20.00	100.00			
Excellent understock.					
● WHITE SPRUCE					
3-yr., S., 8 to 12 ins.	9.00	45.00			
● COLORADO BLUE SPRUCE					
3-yr., S., 8 to 12 ins.	12.00	60.00			
5-yr., T., 8 to 12 ins.	35.00	175.00			
● DOUGLAS FIR					
3-yr., S., 5 to 10 ins.	9.00	45.00			
● AMERICAN ARBORVITAE					
3-yr., S., 6 to 10 ins.	8.00	40.00			
● CANADIAN HEMLOCK					
3-yr., S., 8 to 14 ins.	20.00	100.00			
● RED BARBERRY					
2-yr., S., 6 to 12 ins.	8.00	40.00			
● CONCOLOR FIR					
2-yr., S., 3 to 6 ins.	10.00	50.00			
● JAPANESE YEW					
<i>Taxus cuspidata capitata—upright pyramidal</i>					
2-yr., S., 3 to 6 ins.	\$20.00	\$175.00			
<i>Taxus cuspidata—spreading</i>					
1-yr., T., 5 to 6 ins.	20.00	150.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus hicksi—upright</i>					
1-yr., T., 5 to 6 ins.	25.00	175.00			
2-yr., T., 8 to 12 ins.	40.00	300.00			
<i>Taxus browni</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 8 ins.	40.00	350.00			
<i>Taxus cuspidata capitata—spreading</i>					
From side cuttings.					
2-yr., T., 6 to 8 ins.	30.00	250.00			
<i>Taxus cuspidata capitata—upright</i>					
From tip cuttings.					
1-yr., T., 6 to 8 ins.	25.00	175.00			
<i>Taxus intermedia—spreading</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 8 ins.	40.00	350.00			
● JUNIPER HETZI GLAUCOA					
1-yr., T., 5 to 7 ins.	25.00	200.00			
● GLOBE ARBORVITAE					
<i>Woodward</i>					
1-yr., T., 4 to 6 ins.	30.00	250.00			
<i>Movsky's</i>					
1-yr., T., 4 to 6 ins.	30.00	250.00			
● PYRAMIDAL ARBORVITAE—Compacta					
1-yr., T., 5 to 7 ins.	25.00	200.00			
● JAPANESE HOLLY					
<i>Ilex rotundifolia</i>					
1-yr., T., 5 to 6 ins.	20.00	175.00			
2-yr., T., 6 to 8 ins.	30.00	250.00			
<i>Ilex convexa</i>					
1-yr., T., 4 to 6 ins.	20.00	175.00			
● WHITE DOGWOOD					
Seedlings, 12 to 18 ins.	10.00	50.00			
Trans., 18 to 30 ins.	30.00	150.00			

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joint banquet will be given by the two societies January 8, during which the Wilder medal presentations will be made. Stanley Johnston, fruit breeder and superintendent of Michigan State University's South Haven experiment station, will be one of the speakers at the general meetings.

IOWA LANDSCAPE COURSE

The fifth annual conference in landscape architecture for nurserymen sponsored by Iowa State College, Ames, will be held January 8. Prof. R. R. Rothacker will direct the program, being planned to give information to nurserymen on the subjects of design, planting and maintenance of home grounds and other landscape projects. Meetings will be held in the Memorial Union, Council Chamber room.

CONFIRM MARYLAND DATE

The recently confirmed date for the winter meeting of the Maryland Nurserymen's Association, according to C. M. Akehurst, secretary of the association, is January 8. The program now being planned for the meeting will be presented at the Southern hotel, Baltimore, Md.

PLAN IOWA PROGRAM

Meeting again at the Hotel Kirkwood, Des Moines, Ia., members of the Iowa Nurserymen's Association will hold their winter meeting January 9 to 11. According to Bernard Nassif, secretary-treasurer of the association, final arrangements for the program will be announced shortly.

ARRANGE KENTUCKY MEET

Howard G. Tilson, secretary of the Kentucky Nurserymen's Association, announces that tentative arrangements have been made to hold the group's winter meeting at the Phoenix hotel, Lexington, Ky. According to these plans, January 28 and 29 have been set as dates for the event.

MASSACHUSETTS COURSE

Problems of landscape work will be discussed by the speakers at the Massachusetts Nurserymen's Association short course at the Waltham field station, Waltham, Mass., February 20 and 21. John C. Dwyer, Jr., newly named executive secretary of the association, recently announced the topics as including (1) design, (2) plant material, (3) lawns, (4) selling landscape work, (5) profit in landscape work and (6) construction. Discussion leaders

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Excelsa

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Grade	to 240	to 990	to 2490	to 5000	5000
No. 1	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54
No. 1½50	.48	.46	.45	.44

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We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

STEDMAN NURSERIES, INC.
NEWFANE, N. Y.

will include both staff members of the station and nurserymen.

ARBORISTS PREPARING

According to Paul E. Tilford, executive secretary of the National Arborist Association, program plans are being made for the Washington, D. C., winter meeting of the association. February 3 and 4 have been chosen as the dates for the annual event, and the Statler hotel at Washington will be the meeting headquarters.

DELAWARE COURSE PLANS

The University of Delaware will hold its short course for nurserymen February 4, according to tentative plans announced by Charles W. Dunham, of the department of horticulture. The meeting will be held in the auditorium of Agricultural Hall on the university's campus at Newark, Del.

MIDWEST TREE CHAPTER

An attendance of 350 to 400 is expected at the coming meeting of the Midwestern chapter of the National Shade Tree Conference, according to Noel B. Wysong, chapter secretary. The meeting will be held February 19 to 21 at the Hotel La Salle, Chicago, Ill.

SOUTHERN MEET DROPPED

According to a decision reached by the members of the Southern Nurserymen's Association at their Charleston, S. C., convention last August, the group's winter trade meet has been discontinued. It was felt that the advantages of a trade meet could be effectively incorporated in the annual convention by placing greater emphasis on convention exhibits. The dates for the association's next annual convention are August 24 to 26, 1958, and the Hotel John Marshall, Richmond, Va., has been selected as convention headquarters.

OPENING a second nursery and establishing their home at 800 Meadowbrook road, North Merrick, N. Y., Jack and Connie Schultz will continue to operate the Schultz Nursery, 128 Bedford avenue, Merrick, N. Y.

STARTING the Eben Nursery, Route No. 1, Potsdam, N. Y., are R. W. Daniels, an attorney, of Potsdam, and Fred Ashworth, a dairy and fruit farmer, of Huevelton, N. Y. The retail nursery will offer general ornamental stock and will specialize in dwarf fruit trees.

How to grow dollars in **BIRD** CONTAINERS

No — you can't grow a magic money tree in Bird Containers — but you can grow extra profits. Bird Containers help you grow healthy, luxurious plants. You command top prices. Bird Containers speed up your labor, save you valuable time. That adds dollars to your income. And Bird Containers are low in initial cost. You can easily afford the entire line. So order now from your distributor — or send coupon for complete information.



NEW BIRD PEAT POTS Have Strength and Nutrition

Special ingredient gives added rigidity — helps prevent breakage. Rugged rim makes handling easier. Nutrient promotes healthy growth. For annuals, bedding plants, vegetable plants — especially when you perform transplanting operation. Two sizes — 2¼" and 3 inch.



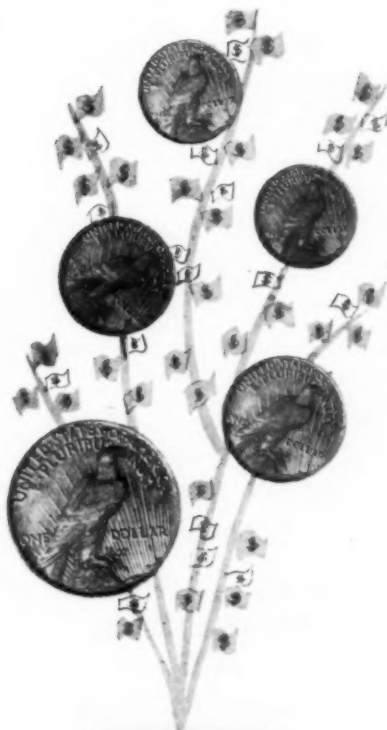
BIRD GRO-TAINER Helps You Sell More Plants

Made from durable fibre, Bird Gro-Tainer Pots help you sell plants in volume. Now in three sizes — 6" x 4" x 2½"; 7" x 5¼" x 2½"; 8" x 6" x 2½".



BIRD PERENNIAL POTS Add Months To Your Selling Season

Strong, lightweight, inexpensive, Bird Perennial Pots add 3 to 5 months to your selling season. For all types of perennials, bulbs, shrubs. Four sizes — 5", 5½", 6½", 8" heights.



BIRD VITA-GREEN POTS Contain Roots Up To 12 Weeks

Roots are contained for 10-12 weeks. Pot disintegrates after planting. Nutrient feeds plant. Rugged container simplifies handling of annuals, bedding plants and vegetable plants — especially for resale. Five sizes — 2¼", 2½", 3", 3½", 4"



BIRD VITA-BANDS The Nutrient-Treated Plant Bands

Contain roots to transplant stage, avoid transplant shock, get earlier maturity. Bands are nutrient saturated. Vita-Band "10" for annual and vegetable plants; Vita-Band "H" for perennials and long-term crops; Vita-Band "D" especially adapted for mechanical transplanting. Eight sizes.

Bird & Son, Inc., Dept. AN
East Walpole, Massachusetts

Please send me free literature, including prices and growing instructions, on the following:
(Check items on which you want information.)

☐ Peat Pots ☐ Perennial Pots ☐ Gro-Tainer
☐ Vita-Bands ☐ Vita-Green Pots

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Makers of Quality Products since 1795

Linoleum, Vinyl Floor Coverings, Vinyl Wall & Counter Coverings; Asphalt Roofing, Insulated Sidings; Fibre & Paper Boxes; Railroad Tie Pads; Horticultural Products

Beginning in the Nursery Business

Chapter 2. Garden Centers (Continued)

By John J. Pinney

Your next job, after completing the construction of your garden center, will be to stock it with merchandise that is both popular and profitable. You can get help in this project from several sources. The wholesale nurserymen who operate in your area are familiar with the varieties of trees, shrubs and other plants that not only are adapted to the region, but also sell the best. They will be glad to help you in working out your assortments. You can depend upon them to be conscientious in their recommendations, because they know the more you sell the better customer you will become.

The horticulture department of your state college has studied the varieties of fruit and ornamental plants best suited to your part of the country. The department staff will welcome the opportunity to advise you along these lines. Often they publish lists of their recommendations.

You can gather valuable information by visiting other garden centers, especially those known to be successful. It would be best to call on those in other towns, where your competition is not likely to be resented or feared. You can shop these garden centers to see what merchandise they are offering or, better still, visit with the owners or managers. You will find many of them will be glad to give you the benefit of their experience.

Stock Lists

The following list, which includes most of the important classes of nursery stock, will help you in determining your own assortment:

Shade trees	Grapevines
Flowering trees	Garden roots
Broad-leaved	Flower bulbs
evergreens	Roses
Shrubs	Perennials
Vines	Annuals
Ground covers	Vegetable plants
Hedge plants	House plants
Fruit trees	Foliage plants

Berry plants

Although the greater part of your investment in merchandise should be in nursery stock, you will also need the accessory lines. Among these are vegetable and flower seeds, peat moss, fertilizers and hand tools. There is a danger of making the list too long. If you bear in mind that you are operating a store for gardeners, you can avoid the mistake of taking on a lot of merchandise that

has no special appeal to them. Some of the merchandise that gardeners might expect to find in a garden center appears in the following list:

Flower seeds	Hand tools
Vegetable seeds	Sprayers
Lawn seeds	Dusters
Peat moss	Bird houses
Fertilizers	Bird baths
Insecticides	Bird feeders
Fungicides	Gazing globes
Weed killers	Garden pottery
Soil conditioners	Garden books
Leaf mold	Planter boxes
Potting soil	and tubs

Power Equipment

The question of whether or not to sell power equipment always comes up in garden center planning. There is no doubt that nearly all homeowners want power lawn mowers. Many of them are interested in power hedge shears. Those with sizable garden plots covet small garden tractors. The sale of power equipment helps to build dollar volume and can be profitable.

There is another consideration,

however, that must be borne in mind. All power equipment at one time or another requires service. It gets out of order and needs repairing. The buyer expects to get this service from the store that sold the equipment. This means that you must have your own repair shop or make arrangements with someone else to do repairing for you. If you refuse to provide your customers with this service, you will alienate them as customers, not only for power equipment, but also for everything else you sell. Many garden center operators have decided they do not want to become repairmen and prefer to leave the power equipment business to hardware or implement dealers.

Displaying nursery stock in such a way as to make it attractive will tax your ingenuity. Evergreens, of course, do not present much of a problem in this regard. They are in full dress all year around, and it is relatively easy for the customer to

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AT REASONABLE PRICES**

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MANCHESTER, CONN.

Wholesale Nurserymen Since 1922



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Christmas Tree Seedlings
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FOR 57 YEARS

*Our business has been
growing*

Rhododendrons

Azaleas

Perennials, Roses

All Nursery Items

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E. RUTHERFORD, N. J.

EVERGREENS

300 acres of choice Evergreens

ready for immediate resale

Write for list.

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SHEPARD NURSERIES

Growers and Distributors of

ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.

60 acres growing.

Shanectateles, N. Y.

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for fall and spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

AMOENA

8 ins.	\$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

CORAL BELLS

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00

HINODEGIRI

Our Hinos are very dark red.

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

ORANGE BEAUTY KURUME

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25

HINO-CRIMSON

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

SNOW

6 ins.	\$0.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25

LEDIFOLIA ALBA

6 ins. ....	.50
8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

MAXWELL

8 ins. ....	.75
10 ins.	1.00

KAEMPFERI

Hardest of all azaleas; well-budded, heavy.

OTHELLO, SALMON BEAUTY, FEDORA and CARMEN are all the same price.

8 ins. ....	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

We also have limited quantities of the following varieties: Louise Gable, Favorita, Beethoven, Johann Strauss, Rose Bud, Rose Greeley, Addy Wery and Polaris.

Rooted cuttings of all varieties ready November 1. \$50.00 per 1000 except—Rose Bud, Rose Greeley, Addy Wery, Louise Gable, \$75.00 per 1000.

Buy northern-grown hardy azaleas. Our cuttings are made from plants that have been outdoors, unprotected for the past 15 years. Try them once and see the difference.

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... is one of the fastest-growing trends in the nursery business today?

... lengthens your selling season ... can be put on sale early before most bare root stock or evergreens?

... cuts time spent waiting on customers?

... requires no potting, heeling in, labeling or wrapping?

ANSWER:

BURR'S PACKAGED PLANTS

Roses Shrubs Trees

• Our BIGGER PROFITS PROGRAM FOR 1958 includes new merchandising ideas, new selling tools, new free services. In addition, we have for you new plant varieties, new metal display racks, giant signs, helpful ad mats, plus wall charts of plant blooms in full color.

Make 1958 the year you, too, make real money on packaged plants.

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visualize them in his own garden. But with dormant deciduous stock it is different. Often the customer has to be convinced that the plant is alive, for in its leafless state it gives no evidence of life to the inexperienced observer. About all one can do is to display such stock neatly, depending upon colored pictures to show the customer how it looks in leaf and in bloom.

Stock Display Beds

The most practical way to display and care for nursery stock is to arrange it in beds, whether under shade or not. The beds can be of various widths, though it is not economical of space to build them narrower than five feet. If they are wider than eight feet it will be hard to get stock out of the beds. They need not be over 10 inches deep. The sides can be made of 2-inch planks placed on edge and treated with a wood preservative that contains no weed killer. Some garden center operators use precast concrete slabs for the sides, while others have used concrete blocks. Aisles between the beds should be at least three feet wide—wider if possible. Make the main aisles five or six feet wide, especially if yours is a self-service setup.

Various materials are used for protecting the roots of bare-root plants or for covering the balls of B & B plants. Among these materials are sawdust, planer shavings and peat moss. Soil and sand are not desirable because they are too hard to move. Bare-root stock should not be left in bundles when it is heeled in. Cut the bundles open and spread the plants out evenly. If the plants are left in bundles, drying air will penetrate to the roots through the centers of the bundles. Be sure the roots are well covered with packing material and are kept moist at all times.

In arranging the nursery stock in the beds, group the stock by classes. Have the shrubs in one place, the fruit trees in another, vines in another and so on. It is disconcerting to a customer to have to hunt all over the display area for what he wants. Place the taller plants back of the smaller ones. This arrangement will bring the greatest amount of stock into view.

Displaying Store Stock

When arranging merchandise in the garden shop or store, follow the same plan of grouping like products. Display seeds together in one place, fertilizers in another, spray material in another and so on. Shelves for merchandise can be built around the outside walls as high as

BIG

We have one of the largest available supplies of big specimen material, including:

TSUGA CANADENSIS

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- AZALEA
- ILEX BUXIFOLIA
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For 39 years

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leading nurseries

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P. O. BOX 175, COCKEYSVILLE, MD.

FLOWERING SHRUBS

Euonymus alatus compactus
18 to 24 ins. 2 to 2½ ft. 2½ to 3 ft.
Spiraea. Red-leaved Barberry. Lilac.
Variegated Dogwood, Flowering Quince,
Amur River and Itoh Privet and
Zabel Honeysuckle.

EVERGREENS

Juniperus glauca hetzel
18 to 24 ins. 2 to 2½ ft. 2½ to 3 ft.
Pinus nigra austriaca
2 to 3 ft. 3 to 4 ft.
Taxus cuspidata capitata
well-sheared specimens
6 to 7 ft.

SHADE TREES

Maple — Sugar, Red and Norway
All nursery-grown. Also collected
specimen Sugar Maple in sizes from
4 to 8-in. cal.
Willow, Niobe Weeping, sizes up to
3½-in. cal.
Oak, Pin, in sizes up to 2½-in. cal.

VINES

Hall's Japanese Honeysuckle
3-yr., very heavy.

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Trees, Evergreens, Shrubs Fruit Trees

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better . . . at a fraction of
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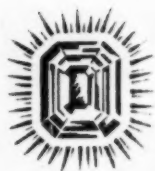
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NEW—HARDY

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**BROAD-LEAVED EVERGREENS
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Four distinctly different types
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(Pat. No. 881) Berried ovoid form



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Most versatile as hedge plants, foundation or ornamental shrubs. Require little shearing or shaping . . . no staking. High disease resistance — drought endurance — low temperature adaptability — resistant to dog damage.

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INCORPORATED

Gloucester and Ipswich, Mass.

one can easily reach, but floor displays are best kept low enough to permit one to see over them. You can make it easy for customers to find the merchandise they want by placing small signs high up on posts or suspending signs from the ceiling.

Above all, keep your displays neat and full of merchandise. Customers are suspicious of the last can of spray material or packet of seeds. Subconsciously they feel there is something wrong with it or it would not still be there. You will sell a great deal more merchandise if you make your displays as large as possible and keep them filled with merchandise. You cannot overdo neatness in your displays. A jumbled display repels the customer. Good housekeeping always pays off.

If your garden center has display windows, use them to attract customers by showing some of your most desirable merchandise. Change the displays frequently and make them as timely as possible. It should be little trouble to change displays once a month, using merchandise that has a special appeal at that particular time. Fall bulbs are timely in October, for instance, and gift books make good reading in January.

Displays of a particular class of merchandise can be repeated, but different items of that class should be used. It is not a bad idea to change your displays in the store from time to time to give it a new look.

Frequently a customer will come in to buy some specific item but will also buy something else that he needed, because he happened to see it on display. Merchants call this impulse buying. You can encourage these impulses by setting up a few small displays of timely merchandise in various parts of the store. The best place is at the check out counter. If it happens to be bulb planting time, you can display potting soil, mulches, rodent repellents and garden labels, all of which might be of interest to the bulb buyer.

Bulky Merchandise

The displaying and handling of heavy, bulky merchandise always presents a problem in the garden center. Large sacks of fertilizer and large bales of peat moss take up too much room in the garden store, and it is difficult to move them from the store to the customers' cars. This problem has been solved by some garden merchants by having such merchandise in a separate room or building directly off the parking lot. The most convenient arrangement, of course, is to have the room or

This unretouched photo tells how **Ringwood Repellent** Stops Rabbits All Winter With Only **ONE Application**



Above photo was taken at an Illinois nursery in February, 1957. The branch at the left had been purposely left untreated. Note rabbit damage . . . the chewed bark . . . a portion lying on the ground. The remainder of this *Euonymus Europa* was painted with Ringwood Repellent and left untouched by rabbits.

● This photo shows only one of the many instances in which RINGWOOD REPELLENT has proved its effectiveness. Users who tried RINGWOOD REPELLENT for the first time last season are protecting their trees and shrubs with this excellent repellent again this year.

This one-coat repellent was developed in cooperation with the U. S. Fish & Wildlife Service. Three years of testing proved its value before it was made commercially available last year.

Use on dormant deciduous trees such as apple, ash, basswood, cedar, cherry, crab apple, dogwood, elm, hackberry, hemlock, honeysuckle, holly, lilac, locust, maple, plum, poplar, prune, redbud, multi-flora rose, tulip, and walnut.

Ringwood Repellent

A PRODUCT OF
PANOGEN, INC.

RINGWOOD, ILLINOIS

Manufacturers of popular Pano-drench, Headquarters for Larvacide for soil fumigation, and other nursery and greenhouse supplies: Bromex, Zip, Plantex, Weedrench, Methyl Bromide, Larvacovers.

Brush or spray on . . . to height rabbits might reach after snowfall. No mixing. Doesn't freeze, harden, or cake. Adheres to bark *permanently*, leaving varnish-like protective coating.

Available in pint, quart, and gallon cans for brush or spray application . . . and in the new Aerosol cans of 5 and 12 ounce sizes. The 5 ounce Aerosol can treats an average of eight 1" to 1½" trees.

Distributor and Dealer Inquiries Invited

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Please send me the following quantities of RINGWOOD REPELLENT:

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- ☐ 1-gallon can @ \$12.00
☐ 1-quart can @ \$4.50
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Aerosol

- ☐ 5 oz. Aerosol can @ \$1.25
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LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
<i>Clethra alnifolia</i>	\$ 4.00	\$ 35.00
18 to 24 ins., clumps	6.00	50.00
2 to 3 ft., clumps	6.00	50.00

<i>Ilex verticillata</i>	6.00	50.00
2 to 3 ft., clumps	7.00	60.00
3 to 4 ft., clumps	10.00	70.00
4 to 6 ft., clumps	10.00	70.00

<i>Viburnum cassinoides</i>	6.00	50.00
2 to 3 ft., clumps	8.00	70.00
3 to 4 ft., clumps	8.00	70.00

<i>Viburnum dentatum</i>	5.00	40.00
2 to 3 ft., clumps	7.00	60.00
3 to 4 ft., clumps	9.00	70.00
4 to 5 ft., clumps	9.00	70.00

CLUMP BIRCH

Paper Birch	4 to 6 ft., 3 stems and up	40.00	.....
	6 to 8 ft., 3 stems and up	60.00	.....

Gray Birch	4 to 6 ft., 3 stems and up	30.00	250.00
	6 to 8 ft., 3 stems and up	45.00	350.00

PAPER BIRCH

<i>Betula papyrifera</i>	6 to 8 ft., shows color	12.00	100.00
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All stock is first-quality collected material

See the October 15 issue (pages 20, 21 and 22) for our complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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P. O. Box 352

Exeter, N. H.

LINING-OUT STOCK

	Per 100	Per 1000
<i>Acer saccharum</i>	\$ 15.00
2 to 3 ft.	30.00
3 to 4 ft.	70.00	.....
4 to 6 ft.	125.00	.....
6 to 8 ft.	125.00	.....

<i>Betula papyrifera</i>	12.00	\$100.00
1 to 2 ft.	15.00	120.00
2 to 3 ft.	40.00	.....
4 to 6 ft.	40.00	.....

<i>Clethra alnifolia</i>	8.00	70.00
6 to 18 ins.	12.00	100.00
<i>Ilex verticillata</i>	8.00	70.00
1 to 2 ft.	15.00	120.00

<i>Syringa vulgaris</i>	8.00	70.00
1 to 2 ft.	15.00	120.00
<i>Viburnum acerifolium</i>	9.00	80.00
6 to 18 ins.	9.00	80.00

<i>Viburnum cassinoides</i>	9.00	80.00
1 to 2 ft.	9.00	80.00
<i>Viburnum dentatum</i>	9.00	80.00
1 to 2 ft.	9.00	80.00

HEMLOCK SEEDLINGS

<i>Tsuga canadensis</i>	5.00	30.00
6 to 9 ins.	8.00	70.00
9 to 12 ins.	15.00	120.00
12 to 18 ins.	15.00	120.00

	list of Hardy	
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PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade. Prepaid F.O.B. here in same shipment

Available for immediate shipment through December. Shipments anywhere including Canada. Good packing free. A good source of supply.

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SHRUB OAK, N. Y.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

LILACS ON OWN ROOTS

Plant This Fall

For fall planting we offer 1500 strong plants, sizes 2 to 6 ft., wide-spreading, heavily rooted, carry flower buds.

A LANDSCAPE ARCHITECT'S BONANZA

Attractive price for all or part. Inspection invited. Truckloads solicited.

Pres. Gravy, Charles X, *Macrostachya*, Mme. Lemoine, Mme. Casimir Perier, *Obelisque*, Marie Le Graye, Wm. Robinson, Leon Gambetta.

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Lilac Grower for 40 Years
Box 158, 22 Main St., Genesee, N. Y.

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Vuykiana Azaleas, Hardy Forcing Hybrids
Ghent and Mollis Azaleas
Hybrid Rhododendrons

Clematis, Peonies, Astilbe, Dicentra
Red Maple, Copper Beech, Fancy Shrubs
140 Cedar St., New York 6, N. Y.

AZALEAS AND HEDGE PLANTS

Splendid stock.

Write for Price List.

DIAMOND STATE NURSERIES

MILFORD, DEL.

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

DANEGGER'S HI-WAY NURSERY, INC.

P. O. Box 336 MILFORD, DEL.

QUALITY LINERS

In Wide Assortment
NURSERY SALES, INC.

525 Stevens Ave., P. O. Box 295

RIDGEWOOD, N. J.

Gl. 4-6848

GROWERS

EVERGREEN TREE LINING-OUT STOCK

Write for free price list.

SUNCREST EVERGREEN NURSERIES

P. O. Box 305-F HOMER CITY, PA.

building adjoining the garden shop proper. By installing large overhead garage doors on this building, one can open the storage space for fertilizers and mulches into a display and sales area whenever he wishes. Arrange the bags and bales neatly around the outside wall and display smaller packages on shelves above. Customers can drive their cars to the door for direct loading of stock.

Plants in flats, pots or bands are best displayed on low tables or benches, so that it is convenient for customers to examine them. These are the plants that should be displayed in your greenhouse if you have one. Be sure to leave plenty of aisle space in the greenhouse for the convenience of customers, especially if you provide them with carts for self-service.

Labeling

All of your nursery stock should be well labeled, so that the customer can tell what it is without asking questions. This can be accomplished in several ways. Tags with colored pictures printed on them are available from several sources for shrubs, shade trees, vines and roses. These can be attached to the plants by means of wires. They can also serve as price tags.

Plants which can be grouped together by variety and size may be identified by means of a single sign placed in a conspicuous spot. If this is not practical and if colored picture tags are not available, each plant can be labeled with a durable paper tag or with wooden labels that can be purchased with wires already attached.

One of the best aids in selling is the liberal use of colored pictures. They are not easy to come by. You will have to search for them. Some can be obtained from your wholesale sources, but most of them will have to be clipped from catalogs and plate books. They should be mounted in some manner that will make them easily accessible. Excellent mountings now on the market are several display racks with swinging panels that can be hung on stands or on a wall. The pictures can also be mounted in large books, but only one customer can view them at a time. One garden center operator mounted his pictures on the wall, as near eye level as possible, and covered them with plastic to keep them clean. Good pictures will answer most of the questions that occur to the customers.

When pricing nursery stock and other merchandise for the first time, the beginner in the business frequently makes the mistake of setting his



*In Demand...
Like Armstrong Rose Varieties!*



You'll rock along happily with a roll of real dough when you feature Armstrong rose varieties! New Armstrong roses always are big news. And previous Armstrong introductions continue to be the most talked about. Yes, Armstrong roses, old and new, are popular favorites bound to bring in extra business.

ARMSTRONG NURSERIES
ONTARIO, CALIFORNIA

READY FOR SHIPMENT NOW

	Per 100	Per 1000
Berberis thunbergii atropurpurea (Red-leaved barberry), 2-yr., S.		
6 to 18 ins., nursery run.....	\$ 7.50	\$ 60.00
4 to 9 ins., hand graded.....	5.00	35.00
9 to 12 ins., hand graded.....	7.00	50.00
12 to 18 ins., hand graded.....	10.00	75.00
18 to 24 ins., hand graded, bushy.....	20.00	175.00
Cornus florida (White Dogwood), 1-yr., S.		
4 to 15 ins., nursery run.....	5.00	40.00
Below grafting size.....	4.00	35.00
Grafting and budding size.....	7.50	60.00
Cornus florida rubra (Pink-red Dogwood), grafted		
10 to 18 ins., 2-yr., B. R.....	75.00	700.00
18 to 24 ins., 2-yr., B. R.....	125.00	1100.00
Forsythia Spring Glory		
18 to 24 ins., 2-yr., 2 br. and up.....	20.00	175.00
2 to 3 ft., 2-yr., 3 br. and up.....	30.00	275.00
3 to 4 ft., 2-yr., 4 br. and up.....	45.00	.....
Euonymus alatus compactus		
1 and 2-yr. cuttings.....	17.50	150.00

BROUWER'S NURSERIES

Box 25

New London, Conn.

ORDER FROM BOULEVARD

	Per 100	Per 1000
Acer platanoides, 1-yr., S., 9 to 12 ins.....	\$ 7.00	\$ 60.00
Acer platanoides, 2-yr., T., FR., 18 to 24 ins.....	15.00	140.00
Berberis thunbergii, 2-yr., T., FR., 9 to 12 ins., heavy.....	8.50	75.00
Berberis thunbergii atropurpurea, 2-yr., T., FR., 9 to 12 ins., heavy.....	9.50	85.00
Cercidiphyllum japonicum, 1-yr., S., 12 to 15 ins.....	7.00	60.00
Cornus florida, 1-yr., S., grafting size.....	4.00	50.00
Euonymus vegetus, 2-yr., T., FR.....	35.00	300.00
Fagus sylvatica, 1-yr., S., 4 to 6 ins.....	9.50	85.00
Ginkgo biloba, 1-yr., S., 4 to 6 ins.....	7.50	70.00
Koeleruteria paniculata, 1-yr., S., 12 to 15 ins.....	7.50	70.00
Salix niobe, B.R., 6 to 8 ft., each. \$1.00.....		
Sorbus aucuparia, 2-yr., T., FR., 18 to 24 ins.....	20.00	180.00
Viburnum dilatatum, 1-yr., S., 9 to 12 ins.....	7.00	60.00
Zelkova serrata (substitutes for American Elm) 2-yr., T., FR.....	20.00	180.00

BOULEVARD NURSERIES

NEWPORT, R. I.

J & P
**EVERGREENS
SHADE TREES**
**SHRUBS, VINES
HEDGE PLANTS, etc.**

In good assortment.

Jackson & Perkins Co.
NEWARK, NEW YORK STATE

HEMLOCK

 Rhododendron—Kalmia
Azalea

CURTIS NURSERIES
CALLICOON, N. Y.

 Concord Grape Roots
Red Raspberry
Flowering Shrubs
Boston Ivy
Currants

IVAN R. CONGDON NURSERY
North Collins, N. Y.

 AMERICAN
Hollies
LINERS
Send For Information
WHOLESALE PRICE LIST
READY FOR MAILING
Native American Holly Farms
115 S. PENN ST. MANHEIM, PA.

TAXUS

 Upright, 6 to 14 ft.
Also Other Varieties of Taxus.
BULK'S NURSERIES
BABYLON, L. I., N. Y.

LILACS FOR AMERICA, by Lilac Survey
Committee. 30 species, 800 varieties. 48 p. \$1.00
postpaid.
American Nurseryman Chicago 4, Ill.

prices too low. The margin between the cost and the selling price has to cover many expenses and risks. Transportation costs, salesmen's salaries or commissions, unsold stock, shrinkage from various causes, replacements and overhead expenses are only a few of them.

There is no rule to follow in pricing nursery stock, but an understanding of the proper method of figuring markup will help you to arrive at the right prices. The percentage of markup is based on the selling price, not on the cost. For example, if an item costs 50 cents and sells for \$1, the markup is not 100 per cent but 50 per cent. The percentage of markup is determined by dividing the difference between cost and selling price by the selling price.

For most items of nursery stock a 50 per cent markup is not enough. It might better be 66% per cent. High-priced merchandise will not stand so great a markup as the cheaper items. A shrub costing 50 cents might readily retail for \$1 or more, but an evergreen costing \$15 probably could not be sold for more than \$30.

NEW AIRPORT INSPECTION

To expedite the inspection of plant imports received by air in this country, the United States Department of Agriculture has established a plant quarantine inspection station at the New York International airport, at Idlewild. It is expected that the new station will make possible the clearance of plants in as little as three hours after they are received from abroad.

According to the U. S. D. A., between October 1, 1956, and October 1, 1957, a total of 18,859 arriving passenger planes was inspected at Idlewild and unauthorized plant material was found on 13,892 of them.

Permits for importation of plants should be obtained in advance from the U. S. D. A. plant quarantine division, 209 River street, Hoboken, N. J.

ALFRED MILLIGAN has started to plant ornamental evergreens and has opened a wholesale and retail business, Al Milligan's Nursery, at Phillips road, R. D. 2, Mount Holly, N. J.

LEN SORESENSEN, Highlands Garden Shop, Camp Hill, Pa., announces that a second Highlands shop was recently opened at the Middletown farmers' market, Middletown, Pa., said to be the largest of its kind.

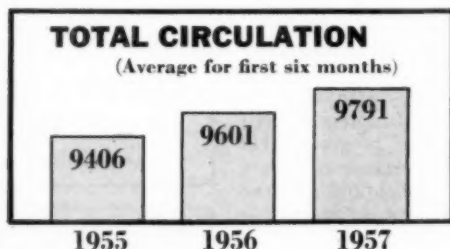
Contact 9,800 Nurserymen at their Buying Time

CONVENTION TIME

From the reports on fall business appearing in the December issues of the **AMERICAN NURSERYMAN**, a record season was experienced and another record season is expected during the spring of 1958. Wholesalers and retailers, as well as garden shop owners, are all optimistic.

The optimism will be reflected throughout the winter months when hundreds of nurserymen in over 25 states will gather at their annual association conventions to buy and sell stock for meeting the rush of spring orders and to purchase supplies and equipment for shipping, planting, and resale. A portion of the many such meetings to be held are listed in the "Coming Events" column of this issue.

You can contact the hundreds who will attend these meetings—and the many more who stay at home—by advertising in the coming issues of the **AMERICAN NURSERYMAN**. The country over, nurserymen will follow these conventions through the complete reports carried in the **AMERICAN NURSERYMAN**. You can get their orders for stock, supplies and equipment by advertising during this important convention period. Your well-timed advertising to these nearly 10,000 leading nurserymen in the United States will support your other selling efforts and produce outstanding results for your firm.



Circulation of the **American Nurseryman** continues to climb, providing many additional prospects for advertisers each year. As 1957 draws to a close, the circulation figure is approaching 10,000—all bona fide members of the nursery industry with PAID subscriptions to the magazine.



More and more firms are advertising to the nursery industry through the **American Nurseryman**. Each year sets a new record for advertising volume. The continuous use of the magazine by advertisers—with larger space orders being received each year—proves that it brings them results!

1958 JANUARY 1958						
Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JANUARY 1 issue
Closes **December 13**

JANUARY 15 issue
Closes **December 27**

1958 FEBRUARY 1958						
Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

FEBRUARY 1 issue
Closes **January 10**

FEBRUARY 15 issue
Closes **January 24**

ACT NOW!

DISPLAY ADVERTISING RATES

Number of issues	1 page	1/2 page	1/3 page	1 inch
1	\$127.50	\$63.75	\$42.50	\$4.25
2	120.00	60.00	40.00	4.00
6	112.50	56.25	37.50	3.75
12	105.00	52.50	35.00	3.50
24	97.50	48.75	32.50	3.25

Contracts permit advertisers to use varying space—larger or smaller—at the same base rate. Number of issues used within one year—not size of advertisements—determines base rate.

Type page, 6¾ inches wide by 10 inches deep. Three columns to a page. Column width, 2⅞ inches; 2 columns, 4½ inches; 3 columns, 6¾ inches.

CLASSIFIED ADS: 40c per line, minimum order \$4.00.

MAIL YOUR ORDER TO

AMERICAN NURSERYMAN

343 S. Dearborn St., CHICAGO 4, ILL.

CHRISTMAS TREE PLANTATION STOCK

PINE—SPRUCE—FIR Seedlings and Transplants

	Per 100	Per 1000
Norway Spruce (<i>Picea excelsa</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	\$ 7.00	\$18.00
3 to 5 ins.	8.00	22.00
(1-2), 3-yr., T., 5 to 10 ins.	10.00	50.00
(2-2), 4-yr., T., 6 to 12 ins.	12.00	60.00
8 to 14 ins.	16.00	90.00
Scotch Pine (<i>Pinus sylvestris</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	18.50
3 to 6 ins.	5.00	22.00
4 to 8 ins.	6.00	25.00
(2-2), 4-yr., T., 6 to 10 ins.	10.00	50.00
8 to 14 ins.	13.00	60.00
Blue Spruce (<i>Picea pungens</i>) (Colorado Blue Spruce)		
(2-0), 2-yr., S., 2 to 3 ins.	4.00	20.00
3 to 4 ins.	6.00	25.00
(3-0), 3-yr., S., 3 to 6 ins.	8.00	35.00
6 to 10 ins.	10.00	55.00
Austrian Pine (<i>Pinus nigra</i>)		
(2-0), 2-yr., S., 2 to 4 ins.	4.00	20.00
3 to 6 ins.	6.00	25.00
(2-2), 4-yr., T., 5 to 10 ins.	12.00	70.00
White Spruce (<i>Picea alba</i>) Excellent blue-gray color.		
(2-0), 2-yr., S., 3 to 6 ins.	5.00	25.00
(3-0), 3-yr., S., 4 to 8 ins.	6.00	30.00
3-yr., S., 6 to 12 ins.	8.00	40.00
Concolor Fir (<i>Abies concolor</i>)		
(2-0), 2-yr., S., 2 to 3 ins.	8.00	35.00
3 to 6 ins.	10.00	50.00
(3-0), 2-yr., S., 4 to 8 ins.	15.00	70.00
Douglas Fir (2-0), 2-yr., S., 2 to 3 ins.	6.00	25.00
3-yr., S., 3 to 5 ins.	8.00	35.00

Discount: Less 5% on quantities of 5000 or more of a kind. Order 100 at 100 rate; 1000 at 1000 rate.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE. All orders may be booked with one-third cash with order and balance C.O.D. All prices are net.

PALLACK BROS. NURSERIES, INC.

Box 1071 Harmony, Pa.
Phone: Zellenople 739 (evenings, 664)



HOLLIES

One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Field plants, 2 to 5 ft. Send for list.

ANGELICA NURSERIES

R. D. 1 MOHNTON, PA.

For Quality Stock— RICKERT NURSERIES

Successor to Moon's

Established 1767

MORRISVILLE, PA.

Western Pennsylvania Activities

By Frank Curto

The eighth regular meeting of the Western Region, Pennsylvania Nurserymen's Association, was held September 26 at the Hotel Webster Hall, Pittsburgh, Pa. In his opening comments, Chairman Herbert Hoechstetter, Hoechstetter's Nursery, Inc., Verona, urged the members to purchase the signs for nursery trucks now available through the P. N. A. He then asked Bert Morten, chairman of the cooperative purchasing committee, to take over the meeting for a discussion of the fertilizer that the association plans to sell under its own trade name, Growell. Several opinions were given as to the most desirable analysis for the fertilizer, and Mr. Hoechstetter asked Mr. Morten to do some further research on this point and to solicit bids from companies that would be interested in producing Growell fertilizer.

The first speaker introduced by program chairman Stanley Leonard, Leonard & Leonard, Pittsburgh, was Frank Bushmiller, who described his year-round spraying program. He emphasized the importance of correct timing in spray applications and the necessity for keeping informed on new spray materials.

Pruning Pointers

In his discussion of tree pruning, Walter Morrow pointed out the advantages of training trees in their early stages of growth and the necessity of knowing the ultimate heights and shapes of trees. He recommended low cabling of bad crotches, stating that high cabling tends to stiffen the tops and cause the ends of the branches to snap off. In the maintenance of pin oaks he advocated a program of cleaning out deadwood and removing some of the live branches to obtain better spacing. He noted also that the lower branches of pin oak will die if they are cut back so far as to be shaded by upper branches.

The agricultural marketing service and its benefits to nurserymen were then explained by Harold Neigh, extension marketing agent for southwestern Pennsylvania, after which John Eisler, Eisler Nurseries, Butler,

SHADE TREES

	Each	Each Per 100	Each Per 1000
Norway Maple			
1-yr., S., 5 to 10 ins.	\$.012		\$0.10
Honey Locust, Thornless			
1-yr., S., 6 to 12 ins.	.15		.10
Pin Oak, true			
1-yr., S., 6 to 12 ins.	.15		.10

TAXUS

Taxus capitata			
4-yr., S., XX, 8 to 12 ins.	.65		.60
3-yr., S., X, 6 to 8 ins.	.35		.32
3-yr., S., X, 5 to 6 ins.	.25		.22
Taxus browni			
3-yr., XX, 8 to 12 ins.	.65		.60

Cash with order, free packing. 50 at 100 rate; 300 at 1000 rate. Minimum order \$20.00. Write for quotations on larger quantities.

BROOKFIELD GARDENS

U. S. Rt. 46 Delaware, N. J.

JAPANESE BARBERRY

	Per 100	Per 1000
Green Barberry		
2-yr., S., 6 to 9 ins.	\$ 5.50	\$ 45.00
2-yr., S., 9 to 12 ins.	7.50	60.00
Heavy, T., 15 to 18 ins.	22.50	200.00
Heavy, T., 18 to 24 ins.	27.50	250.00
Red Barberry		
2-yr., S., 9 to 12 ins.	7.50	65.00
2-yr., S., 12 to 18 ins.	10.00	90.00
2-yr., S., 18 to 24 ins.	15.00	130.00
3-yr., T., light weight, 12 to 18 ins.	17.50	150.00
3-yr., T., light weight, 18 to 24 ins.	22.50	200.00

5% cash discount. Packing additional at cost.

FAIRVIEW EVERGREEN NURSERIES

Fairview, Pa.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

DEERFIELD NURSERIES

DEERFIELD, N. J.

HYBRID RHODODENDRONS

Evergreens,
Ornamental Trees
and Shrubs

SEPER'S NURSERY

N. Delsea Drive
VINELAND, N. J.

FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each	Each
	100	1000
	rate	rate
Abies concolor (Concolor Fir)		
3 to 6 ins., 2-yr., S.	\$.10	..
4 to 8 ins., 3-yr., S.	.15	..
Azalea Ghent pontica, pastel shades		
4 to 6 ins., 3-yr., T.	.35	\$0.32
6 to 10 ins., 3-yr., T.	.45	..
Azalea kaempferi (Torch Azalea)		
3 to 6 ins., 2-yr., T.	.35	..
6 to 10 ins., 3-yr., T.	.45	..
Azalea mollis (Chinese Azalea)		
6 to 8 ins., 2-yr., T.	.22	.18
8 to 12 ins., 3-yr., T.	.45	.40
Azalea mucronulatum, lavender shades		
4 to 8 ins., 2-yr., T.	.35	.32
8 to 10 ins., 3-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.55	.50
Buxus sempervirens welleri		
8 to 10 ins., 2-yr., T.	.45	..
10 to 12 ins., 3-yr., T.	.55	..
Chamaecyparis filifera aurea		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 3-yr., T.	.45	..
10 to 12 ins., 3-yr., T.	.55	..
Chamaecyparis lawsoniana allumi (Columnar Blue Cypress)		
10 to 12 ins., 2-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
Chamaecyparis plumosa aurea		
8 to 10 ins., 3-yr., T.	.40	.35
10 to 15 ins., 3-yr., T.	.50	.45
Cotoneaster horizontalis		
4 to 8 ins., 2-yr.	.25	..
Euonymus fortunei erectus		
10 to 12 ins., 2-yr., T.	.28	.25
12 to 18 ins., 3-yr., T.	.35	.30
Euonymus radicans coloratus		
12 to 18 ins., 3-yr., T.	.35	.30
Euonymus radicans vegetus		
8 to 10 ins., 2-yr., T.	.35	..
10 to 15 ins., 3-yr., T.	.45	..
Ilex crenata (Pyramidal)		
8 to 10 ins., 2-yr., T.	.33	..
10 to 15 ins., 3-yr., T.	.45	..
Ilex crenata convexa (bullata)		
10 to 12 ins., 2-yr., T.	.48	.45
12 to 15 ins., 3-yr., T.	.55	.55
12 to 15 ins., 5-yr., field row spaced	1.00	.90
Ilex crenata hetzi		
8 to 10 ins., 2-yr., T.	.40	.38
10 to 15 ins., 3-yr., T.	.55	..
Ilex rotundifolia (Round-leaved)		
8 to 10 ins., 2-yr., T.	.38	.35
10 to 12 ins., 3-yr., T.	.48	.45
12 to 15 ins., 3-yr., T.	.70	.55
12 to 15 ins., 5-yr., T., field row spaced	1.00	.90
Juniper, Andorra (Purple Andorra Juniper)		
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.50	.45
Juniperus canadensis aurea (Golden Canadian Juniper)		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 3-yr., T.	.45	..

FINISHED NURSERY STOCK

All plants listed below priced in the ground. Purchaser to call for at the nursery. About 10,000 in this block. Will give a block clearance price on large amounts.

	Each	Each
	100	1000
	rate	rate
Ilex crenata convexa (bullata)		
12 to 18 ins.	\$.150	\$1.10
15 to 18 ins.	2.00	1.60
18 to 24 ins.	2.50	..
Ilex rotundifolia		
12 to 18 ins.	1.50	1.10
18 to 24 ins.	2.00	1.60
Juniperus glauca hetzi		
12 to 18 ins.	2.00	1.60
18 to 24 ins.	2.40	1.75
Juniperus pfitzeriana compacta , Nelson's compact variety		
12 to 15 ins.	1.50	1.10
15 to 18 ins.	2.00	1.50
Taxus cuspidata (about 125 of these plants)		
4 to 5-ft. spread	8.00	..
(10 to 200 at the 100 rate; 200 up at the 1000 rate.)		

	Each	Each
	100	1000
	rate	rate
Juniperus glauca hetzi (Hetz Juniper)		
8 to 10 ins., 2-yr., T.	\$.035	\$0.30
10 to 12 ins., 2-yr., T.	.40	.35
12 to 15 ins., 3-yr., T.	.55	.48
Juniperus hibernica fastigiata (Compact Irish Juniper)		
10 to 12 ins., 2-yr., T.	.38	.33
12 to 15 ins., 3-yr., T.	.45	.40
Juniperus pfitzeriana, regular		
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.65	..
Juniperus pfitzeriana compacta , Nelson's compact variety		
6 to 8 ins., 1-yr., T.	.35	.30
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.65	..
Koeleria paniculata		
2-yr., S., field bed	.12	.08
6 to 12 ins., 3-yr., T.	.18	.15
Leucothoe catesbaei		
8 to 10 ins., 3-yr., T.	.35	.30
10 to 12 ins., 3-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
Liquidambar styraciflua		
2-yr., S., bed run	.10	.08
6 to 12 ins., 3-yr., T.	.15	.12
Mahonia aquifolium		
2 to 5 ins., 3-yr., S.	.20	.18
4 to 8 ins., 4-yr., S.	.25	.20
Picea alba (White Spruce)		
3 to 6 ins., 2-yr., S.	.05	.02½
6 to 12 ins., 3-yr., S.	.08	.04

	Each	Each
	100	1000
	rate	rate
Picea excelsa (Norway Spruce)		
6 to 12 ins., 4-yr., T.	\$.012	\$0.06
8 to 14 ins., 4-yr., T.	.16	.09
Picea pungens (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.	.20	.18
6 to 8 ins., 4-yr., T.	.35	.32
Pieris floribunda (Mountain Andromeda)		
6 to 8 ins., 2-yr., T.	.35	..
Pieris japonica		
8 to 10 ins., 2-yr., T.	.35	..
10 to 12 ins., 3-yr., T.	.65	..
Pinus mugo (Dwarf Mugo Pine)		
2 to 6 ins., 3-yr., T.	.25	.20
Pinus nigra (Austrian Pine)		
5 to 10 ins., 4-yr., T.	.15	.07
Pinus sylvestris (Scotch Pine)		
5 to 8 ins., 4-yr., T.	.10	.05
8 to 14 ins., 4-yr., T.	.15	.07
Pseudotsuga douglasii (Douglas Fir)		
2 to 3 ins., 2-yr., S.	.06	.02½
3 to 5 ins., 3-yr., S.	.08	.03½
Pyracantha coccinea lalandi		
6 to 10 ins., 2-yr., T.	.32	.30
10 to 15 ins., 3-yr., T.	.40	.38
Rhododendron carolinianum		
2 to 4 ins., 3-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
Rhododendron catawbiense		
2 to 4 ins., 3-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
Rhododendron Hybrid, various colors		
3 to 5 ins., 3-yr., T.	.45	..
5 to 8 ins., 4-yr., T.	.55	..
8 to 10 ins., 4-yr., T.	.85	..
10 to 15 ins., 5-yr., T.	1.00	..
Taxus capitata (Upright Yew)		
4 to 8 ins., 4-yr., T.	.40	.35
8 to 10 ins., 4-yr., T.	.50	.48
Taxus cuspidata (Spreading Yew)		
6 to 8 ins., 2-yr., T.	.38	.35
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.55	.45
Taxus media hicksii (Hicks' Yew)		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
Thuja occidentalis douglasii aurea (Geo. Penbody Golden Arborvitae)		
8 to 10 ins., 3-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
Thuja occidentalis elegantissima lutea		
10 to 12 ins., 3-yr., T.	.45	.40
12 to 15 ins., 4-yr., T.	.55	.50
15 to 18 ins., 4-yr., T.	.65	..
Thuja occidentalis globosa		
8 to 10 ins., 2-yr., T.	.40	.35
10 to 15 ins., 4-yr., T.	.65	..
Thuja occidentalis pyramidalis		
10 to 12 ins., 2-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
15 to 18 ins., 3-yr., T.	.65	..
Tsuga canadensis (Hemlock)		
8 to 10 ins., 4-yr., T.	.40	..
10 to 15 ins., 5-yr., T.	.55	.50
Viburnum opulus nanum		
6 to 8 ins., 3-yr., T.	.35	.32
8 to 10 ins., 4-yr., T.	.45	.42
10 to 12 ins., 4-yr., T.	.55	.50

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R. D. 1, HARMONY, PA.

gave a brief report on the planting of new Pennsylvania highways. Mr. Eisler commented that more rigid inspection is necessary to compel paving contractors to abide by specifications contained in nurserymen's contracts with the highway department.

Speaking at the first session to be held after the dinner hour, James Schneider, C. P. A., of Duquesne University, Pittsburgh, discussed applications of the income tax laws to nurseries and answered the many questions presented by the members.

The meeting was concluded with the showing of Bert Morten's color slides taken on his recent trip to Canada.

V.P.I. HORTICULTURAL SHOW

Landscape for outdoor living was the theme for a contemporary garden which was designed and developed by students in landscape design and architecture for the annual fall horticultural show at Virginia Polytechnic Institute, Blacksburg, Va. Plant material for the exhibit

was donated through the courtesy of some of the members of the Virginia Nurserymen's Association.

PLANS have been made by Arrowhead Farms & Nursery, Chagrin Falls, O., to open a garden center. Paul H. Pfouts is the owner.

ERICK H. LEMMEN, owner of Lemmen's Nursery, East Moriches, L. I., N. Y., announces that his son Joseph is now his partner in the firm.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

PLANT ORIGINS—II

In a previous article I made some general comments on the origin of cultivated plants, basing my remarks on the book of that name by Alphonse de Candolle, which was written more than three quarters of a century ago, and said that I would make further comments about some of the plants that nurserymen grow. Most of the plants listed in the book are cereals, fruits or vegetables, and their ornamental value, if any, is secondary. Of course, fruit tree nurserymen are directly concerned with some of these.

The strawberry is one of the few cosmopolitan plants, growing almost all over the globe. It is one of the few plants found in a wild state in the temperate regions all round the North Pole with the possible exception of Siberia. It is also found extending into the Arctic regions in Lapland, the Shetland islands and Iceland. In Europe and Asia it is found in Spain, Sicily, Greece, Armenia and Syria. The strawberry also extends into the tropics, particularly in the highlands of Mexico and Ecuador. The fleshy fruit is, of course, attractive to birds, and the tiny seeds are thus carried great distances. Wherever colonists took the strawberry, naturalization seems to have taken place, even in remote New Zealand and Tasmania.

Not of Ancient Culture

Unlike that of most of our important food crops, the culture of the strawberry is not ancient, probably beginning in the 15th or 16th century in France and somewhat earlier in England. M. de Candolle recognizes three species of strawberry from which our many varieties have been raised, *Fragaria vesca* (European strawberry), *F. virginiana* (U. S.) and *F. chiloensis* from Chili.

Of all our cultivated fruits, the apple is perhaps among the most ancient, dating back to prehistoric times. Much of its history is familiar, but several comments are very interesting. Apples have been found among the artifacts of the lake dwellers of Lombardy, Savoy and Switzerland. The inhabitants cut the apples lengthwise and dried them as provisions. Often specimens were carbonized, so that their identity and

botanical characteristics were preserved for thousands of years. At least two varieties that are larger than the native wild apple of Europe have been identified. The tree grows wild throughout much of Europe and also seems to extend into Asia in Anatolia and Persia. While the apple is grown in India, the lack of a Sanskrit name indicates it was not native, and the existence of an entirely different name for the fruit among the Basques of Spain indicates it was in Europe before the Aryan invasion.

Tea History

The author's remarks about tea are interesting on several scores — the plant interests us all, it is partly ornamental and, of course, it is a close relative of ornamental camellias. There has been considerable controversy as to whether the tea plant originated in India or China. More than likely it is wild in the

mountainous regions which separate the plains of India from those of China. The use of tea clearly seems to have originated in China, for the earliest Indian legend dates to the sixth century A. D. while there are Chinese references to tea as early as 2700 B. C. Again, there is no Sanskrit name for tea, which would indicate that the plant was not used in ancient India. An odd fact pointed out by de Candolle is that tea will not grow in any (mild) climate that is suitable for growing the vine (grapes) and that where tea is grown grapes cannot be. Tea is now grown in China, Japan, Assam, Java, Ceylon and Brazil.

The chestnut, a plant of considerable present-day interest, is chiefly mentioned by de Candolle in its European form, although he mentions the Japanese and the American chestnuts. The Chinese was probably unknown to him. The European chestnut is found wild along the Mediterranean sea in the mountains from the Caspian region to Portugal and, unlike so many plants of that region, is found on the African shore in Tunis and Algeria. Its culture is fairly ancient, for the Romans in Pliny's time had eight varieties, although the culture of the chestnut from ancient times to the present

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Evergreen Azaleas
Ghent Azaleas
Ghent Azaleas, White
Holly and Azalea Liners

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Mentor, Ohio

consists mainly of top-working wild trees. The favored types are those with single-seeded burs rather than 2 or 3-seeded burs. The former are called Marrone or Marone and date from about 1170.

White Mulberry

The white mulberry has had a most interesting history. This is the tree grown to feed silkworms and, secondarily, for ornament. It seems to have been cultivated since time immemorial in China and Japan and probably originated in the former but, because of its facility for naturalizing, seems to go wild wherever it is introduced — Europe, Persia or other parts of Asia Minor. I remember that there was once a white mulberry mania, similar to the tulip mania, in my own county in Maryland, and perhaps elsewhere. In a book entitled "150 Years of Banking on the Eastern Shore," by Elliott Buse, it is stated that there were 150,000 of these trees planted within a mile of Easton and that in one week in September, 1839, 8,000 trees were sold.

In concluding these comments on de Candolle's book, I should like to note that he says a Captain Bligh was commissioned to introduce the breadfruit from Sumatra to the English West Indies. The mutiny of his crew caused him to fail in his first effort, but a second attempt succeeded. Thanks to the motion pictures, that is one bit of plant history nearly everyone knows.

SCHNEIDER BROS., Bowie, Mich., recently completed a lath house 80x100 feet, to be used for growing nursery stock.

J. H. WESCH is planning to open the Wesch Nursery, at 5355 Whitmore Lake road, Ann Arbor, Mich. He is currently vice-president of the Southeastern Michigan Christmas Tree Growers' Association.

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		Per 10	Per 100	Per 10	Per 100
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5 to 6 ft.	\$1.25	\$1.00	Thornless Honey Locust, X	
6 to 8 ft.	2.00	1.50	6 to 8 ft.	\$2.50 \$2.00
1 to 1 1/4-in. cal.	2.50	2.00	1 to 1 1/4-in. cal.	3.00 2.50
Chinese Elm, X					
1/4 to 1-in. cal.	.....	1.50	1.25	1 to 1 1/4-in. cal.	5.00 4.50
1 to 1 1/4-in. cal.	.....	2.00	1.50	1 1/4 to 1 1/2-in. cal.	5.50 5.00
1 1/4 to 1 1/2-in. cal.	.....	2.75	2.25	1 1/2 to 2-in. cal.	7.50 ...
Silver Maple, XX					
1 to 1 1/4-in. cal.	.....	2.25	1.75	Schwedler Maple	
1 1/4 to 1 1/2-in. cal.	2.75	2.25	1 to 1 1/4-in. cal.	5.50 5.00
1 1/2 to 1 3/4-in. cal.	3.00	2.75	1 1/4 to 1 1/2-in. cal.	6.00 ...
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Sugar Maple, 1 1/4 to 1 1/2-in. cal.
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* (2-0), 4 to 8 ins.	7.50	26.00	24.00
* (2-0), 3 to 6 ins.	6.00	24.00	22.00
(2-0), 2 to 4 ins.	5.00	16.00	14.00
(2-1), 3 to 8 ins.	10.00	45.00	45.00
Scotch Pine, Auvergne, race Noble (So-called French blue)			
(2-0), 3 to 6 ins.	7.50	26.00	24.00
*Austrian Pine			
(2-0), 3 to 6 ins.	6.00	24.00	22.00
*Douglas Fir, caesia, green to gray			
(2-0), 4 to 8 ins.	6.00	28.00	26.00
*Douglas Fir, taxifolia glauca, green to blue			
(2-0), 4 to 8 ins.	6.00	28.00	26.00
6 to 10 ins., XX	15.00	90.00	....
Colorado Blue Spruce			
* (3-0), 4 to 8 ins.	9.00	45.00	42.50
(3-0), 2 to 4 ins.	6.00	26.00	24.00
Black Hills Spruce			
* (3-0), 4 to 8 ins.	8.00	40.00	37.50
(3-0), 2 to 4 ins.	6.00	25.00	23.00
White Spruce			
* (3-0), 5 to 10 ins.	8.00	45.00	40.00
(3-0), 3 to 5 ins.	6.00	25.00	23.00
Norway Spruce			
(3-0), 5 to 10 ins.	8.00	45.00	40.00
(3-0), 3 to 5 ins.	6.00	25.00	23.00
Mugho Pine			
4 to 6 ins., X	25.00	150.00	....
Taxus cuspidata capitata from seed, sheared			
8 to 12 ins., XX	80.00
6 to 8 ins., XX	45.00
White Birch			
2 to 4 ft., XX	75.00

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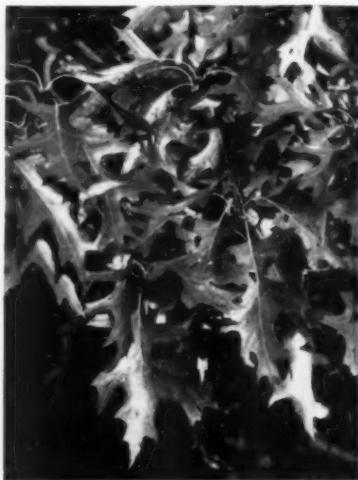
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COVER ILLUSTRATION

Quercus Palustris

Commonly called pin oak, *Quercus palustris* ranges from Massachusetts south to Delaware and west to Wisconsin and Arkansas. About 70 to 80 feet at maturity, this oak can reach 100 feet under ideal growing conditions. Usually of single trunk structure, with slender, spreading branches, often pendulous at the ends, this species has a graceful appearance generally lacking in the oak. The quite horizontal branches form a symmetric, pyramidal head while in vigorous growth, but in fully grown trees the contour becomes more broadly columnar.

Q. palustris is one of the fastest-growing oaks, and this fact and the



Quercus Palustris Foliage

characteristic of shining dark green leaves are the reasons for its wide use as a street tree, for park plantings and for lawn specimens where space permits. Because it is easily grown and readily moved and quickly reaches serviceable size, the pin oak has proved a practical species for use in large-scale landscaping. While not so well-colored as *Q. coccinea*, the fall foliage of *Q. palustris* turns a deep scarlet and later becomes brown before falling.

The pin oak flourishes in rich, moist soil, but will do well on less favorable sites; its deep, spreading root system enables it to withstand any but the severest droughts, and this species requires but little care.

The photograph from which the cover illustration was made was taken by Gavaghan & Dobson at Rochester, N. Y.

J. G.

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<i>Acer negundo</i> (Box Elder) 12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.40	12.00
<i>Amelanchier alnifolia</i> (Juneberry) 9 to 12 ins.	6.50	60.00
6 to 9 ins.	4.50	40.00
4 to 6 ins.	3.20	28.00
<i>Ampelopsis veitchii</i> (Boston Ivy) 2-yr., No. 1, S.	30.00	250.00
2-yr., medium, S.	20.00	150.00
<i>Caragana arborescens</i> 6 to 9 ins.	1.70	15.00
<i>Celtis occidentalis</i> (Hackberry) 6 to 12 ins.	1.80	15.00
<i>Cercis canadensis</i> (Redbud) 9 to 12 ins.	5.50	50.00
6 to 9 ins.	4.50	40.00
<i>Clematis ligusticifolia</i> 8 to 15 ins., 1-yr.	4.50	40.00
<i>Cornus stolonifera</i> (Dogwood) 18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.50	50.00
6 to 12 ins.	3.00	25.00
<i>Crataegus arnoldiana</i> 6 to 12 ins.	4.00	35.00
<i>Elaeagnus commutata</i> (Silverberry) 18 to 24 ins.	6.50	60.00
12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.00	35.00
<i>Fraxinus lanceolata</i> (Green Ash) 3 to 4 ft.	5.60	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
<i>Gleditsia triacanthos inermis</i> (Thornless Honey Locust) 3 to 4 ft.	8.00	75.00
2 to 3 ft.	5.50	45.00
6 to 9 ins.	1.70	14.00
<i>Wild River Grape</i> No. 1	3.50	30.00
No. 2	2.50	20.00
<i>Lonicera tatarica</i> (Honeysuckle) 6 to 9 ins.	3.20	28.00
4 to 6 ins.	2.50	20.00

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No. 3	3.00	25.00
<i>Malus Hops</i> No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
<i>Malus Manchurica</i> No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
<i>Malus Rosybloom</i> No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00

	Per 100	Per 1000
<i>Morus tatarica</i> (Russian Mulberry) 6 to 12 ins.	\$ 1.40	\$12.00
<i>Prunus americana</i> (Native Plum) 1/4-in. cal.	4.50	40.00
No. 1	4.00	35.00
No. 2	2.90	25.00
No. 3	2.10	18.00
<i>Prunus armeniaca</i> (Siberian Apricot) 2 to 3 ft.	8.00	75.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	2.50	20.00
<i>Prunus besseyi</i> (Western Sand Cherry) 2 to 3 ft.	8.00	75.00
18 to 24 ins.	5.50	50.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
<i>Prunus japonica</i> 18 to 24 ins.	8.00	75.00
12 to 18 ins.	4.00	35.00
6 to 12 ins.	4.50	40.00
<i>Prunus melanocarpa</i> (Chokecherry) 6 to 12 ins.	4.50	40.00
<i>Prunus serotina</i> (Wild Black Cherry) 2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
<i>Prunus tenella</i> (Russian Almond) 12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.00	35.00
<i>Prunus tomentosa</i> (Nanking Cherry) 2 to 3 ft.	14.00	120.00
18 to 24 ins.	8.50	80.00
12 to 18 ins.	6.00	55.00
<i>Prunus triloba</i> 2 to 3 ft.	15.00	130.00
18 to 24 ins.	9.00	85.00
12 to 18 ins.	6.50	60.00
6 to 12 ins.	3.00	25.00
<i>Pyrus ussuriensis</i> (Korean Pear) No. 1	5.50	50.00
No. 2	5.00	45.00
No. 3	4.50	40.00
<i>Quercus palustris</i> (Pin Oak) 2 to 3 ft.	15.00	140.00
18 to 24 ins.	12.00	110.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.50	50.00
<i>Quercus rubra</i> (Red Oak) 2 to 3 ft.	15.00	140.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.50	50.00
<i>Rhus canadensis</i> (Sumac), three-leaved 12 to 18 ins.	6.00	50.00
6 to 12 ins.	3.50	30.00
<i>Robinia pseudoacacia</i> (Black Locust) 2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
<i>Rosa multiflora</i> (Rose, multiflora) 1/4-in.	5.00	45.00
1/4-in.	3.50	30.00
8 to 15 ins.	2.70	22.00
<i>Syringa vulgaris</i> (Common Lilac) 6 to 9 ins.	3.50	30.00
4 to 6 ins.	2.50	20.00

	Per 100	Per 1000
<i>Ulmus americana</i> (American Elm) 2 to 3 ft.	\$4.00	\$35.00
18 to 24 ins.	3.20	28.00
<i>Ulmus pumila</i> (Chinese Elm) 2 to 3 ft.	4.50	40.00
18 to 24 ins.	3.20	28.00
6 to 12 ins.	1.40	12.00
<i>Shepherdia argentea</i> (Buffalo Berry) 6 to 9 ins.	4.00	35.00

Send us your list for quotations on large quantities.

Each Per 10 Per 100 Per 1000

LINING-OUT EVERGREENS:

Bare-root.			
<i>Admirabilis Creeping Juniper</i> 12 to 15 ins., TTT.	\$0.75	\$0.70	\$0.45
9 to 12 ins., TTT.	.60	.55	.50
<i>Andorra Juniper</i> 15 to 18 ins., TTT.	.75	.90	.85
9 to 12 ins., TTT.	.60	.55	.50
<i>Pfitzer Juniper</i> 15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
6 to 9 ins., TTT.	.45	.40	.35
<i>Gold Tip Pfitzer Juniper</i> 12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
<i>Hetz Juniper</i> 18 to 24 ins., TTT.	1.45	1.35	1.25
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
6 to 9 ins., TTT.	.45	.40	.35
<i>Savin Juniper</i> 18 to 24 ins., TTT.	1.45	1.35	1.25
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
<i>Thuja americana pyramidalis</i> 15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins., TTT.	.85	.80	.75
9 to 12 ins., TTT.	.70	.65	.60
<i>Woodward Globe Arborvitae</i> 9 to 12 ins., TTT.	.70	.65	.60
6 to 9 ins., TTT.	.45	.40	.35

Each Per 5 Per 100

CANNED EVERGREENS:

<i>Andorra Juniper</i> 1-gal. can	\$1.25	\$1.10
<i>Irish Juniper</i> 1-gal. can	1.25	1.10
<i>Pfitzer Juniper</i> 1-gal. can	1.45	1.35
<i>Hetz Juniper</i> 1-gal. can	1.45	1.35
<i>Savin Juniper</i> 1-gal. can	1.45	1.35
<i>Juniperus virginiana</i> 1-gal. can	1.40	1.30
18 to 24 ins.	1.50	1.40
2 to 3 ft.	1.40	1.30
<i>Koster Juniper</i> 1-gal. can	1.45	1.35
<i>Taxus cuspidata</i> 1-gal. can	1.50	1.40
<i>Woodward Globe Arborvitae</i> 1-gal. can	1.25	1.10
<i>Euonymus alatus compactus</i> 1-gal. can	1.00	.90

Canned evergreens packed 5 to a basket. PROMPTLY AVAILABLE.

HORTICULTURAL CONGRESS

(Continued from page 9)

um and the American Association of Botanical Gardens and Arboreta.

The A. H. C. made an outstanding contribution to horticulture during the past year with the completion and production of the Nickerson Color Fan, a practical color chart in an easy-to-use fan form. It is now on sale through the A. H. C. secretary, Dr. Donald Wymann, Arnold Arboretum, Jamaica Plain, Mass. The plant hardiness zone map, an-

other monumental work of the council, prepared in cooperation with the National Arboretum, will be printed by the United States government printing office.

Colorado foods, especially Rocky Mountain trout, were featured on the menu of Thursday's luncheon, while Prof. Charles Drage, extension horticulturist, Colorado State University, spoke on "Horticultural and Agricultural Products of Colorado." After lunch the entire convention left on a tour of the

foothills, including Central City and concluding with a dinner. Herbert Gundell, county agent of Denver county, was the speaker at the annual meeting of the Garden Writers' Association of America. Mr. Gundell explained his successful use of all advertising media to stimulate local horticultural interest.

The third day of the congress was devoted to special sessions. During the morning Mrs. Hugh H. C. Weed, horticultural representative of the Garden Club of America, spoke on

HARDY QUALITY SHRUBS**Cotoneaster, Euonymus, Ilex**

For Lining Out or Canning

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Cotoneaster apiculata		
2-yr., heavy, T. . . .	\$0.45	\$0.40
3-yr., heavy, T.60	.55
Cotoneaster divaricata		
2-yr., heavy, T. . . .	.30	.25
Euonymus alatus compactus		
4-yr., T.,		
15 to 18 ins. . . .	.55	.50
5-yr., T.,		
15 to 18 ins. . . .	.70	.65
18 to 24 ins. . . .	.85	.75
Euonymus alatus		
4-yr., T.,		
15 to 18 ins. . . .	.45	.40
18 to 24 ins. . . .	.60	.55
Euonymus alatus gracilis		
4-yr., T.,		
12 to 15 ins. . . .	.45	.40
Euonymus radicans erectus		
3-yr., T.,		
12 to 15 ins. . . .	.45	.40
Ilex glabra , improved strain, Naturally dense, dwarf- growing, 2-yr., T. . .	.50	.45
Ready for shipment. At least 50 of a kind and size, please.		
Please write for complete list of lining-out stock.		
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FALL 1957

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Taxus cuspidata, up to 18 to 24 ins.
Taxus hicksi, up to 24 to 30 ins.
Chinese Elm, fine straight trees, up to 3 ins.
Flowering Crab Apple, up to 5 to 7 ft.
Norway Maple, up to 3 ins.
Soft Maple, up to 1½ ins.
Sugar Maple, up to 1½ ins.
Pin Oak, up to 2½ ins.
Sweet Gum, up to 2 ins.
Cotoneaster divaricata, up to 4 to 5 ft.
Honeysuckle Bush, up to 4 to 5 ft.
Rhus cotinus, up to 6 to 7 ft.
Fruit trees, all kinds
Montmorency Cherry, 1-yr.

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"Amateur Horticultural Accomplishments," covering the many phases of Garden Club of America activity. Robert L. Woerner, Denver Botanical Garden, spoke on "Professional Horticultural Accomplishments," which he termed a continuing accomplishment on the part of many devoted people.

International Accomplishments

In the absence of Dr. Russell Seibert, Longwood Gardens, Kennett Square, Pa., George Spalding, superintendent of the Los Angeles State and County Arboretum, Arcadia, Calif., gave his paper on "International Horticultural Accomplishments" and added interesting information on the international applications of his own arboretum. The A. H. C. will present a paper at the International Horticultural Congress at Nice, France in April, 1958.

Margaret Herbst, public relations consultant, of New York, N. Y., and president of the garden writers' association gave concrete examples of horticultural accomplishments through journalism, stressing individual contributions of members from all parts of the country. Prof. A. M. Binkley, Colorado State University, told of an interesting plan of the new national seed laboratory to be a so-called federal reserve germ plasm seed bank. During the afternoon, member organizations held a worthwhile discussion session.

Citations Awarded

A fitting climax to the festivities was the annual banquet, at which special citations were awarded six outstanding horticulturists, three of whom were present to receive them. Dr. Francis A. Bartlett, Bartlett Tree Expert Co., Stamford, Conn., was honored "for a lifetime devoted to the care of trees," and Dr. Edwin A. Menninger, Stuart, Fla., and George W. Kelly, Denver, Colo., received citations for their work in gathering knowledge about ornamentals suitable for cultivation in their respective states. Mr. Kelly was also commended for "placing the Green Thumb, the official magazine of the Colorado Horticulture and Forestry Association, on a high and distinguished level among American horticultural publications."

Phillip Alampi was to present Dr. Harold Bradford Tukey, Michigan State University, East Lansing, with his citation, awarded for his many contributions to horticulture, including his recent encouragement and promotion of experiments in the use of radioactive isotopes, "which have contributed substantially to our

**Specializing in
Table Christmas Trees**

25 and up

White Pine and Red Pine

30,000 18 to 24 ins., B&B ..\$1.50
 20,000 24 to 30 ins., B&B .. 1.70
 1,500 30 to 36 ins., B&B .. 1.90
 500 3 to 3½ ft., B&B 2.40
 200 3 to 4 ft., B&B 2.60

Rotproof burlap at same prices if desired. Please specify.

CHOICE TABLE TREES

(White Pine and Red Pine)

2 to 4 ft., 50 and up,

\$1.15 each.

Each tree has been trimmed three times. Ample handle has been allowed at trimming for easy stand mounting. Each tree has been fertilized and specially handled. For those who want an easy-to-sell table tree that won't shed. Try these bushy and compact trees.

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WHITE—\$30.00 per 50 lbs.

Imitates Jack Frost's artistry

CHILLY PINK—\$32.00 per 50 lbs.

A new popular color

ICE BLUE—\$32.00 per 50 lbs.

The NEW Christmas color

100% PURE VIRGIN RAYON

SNOW FLOCK

Fire Retardant—Glitter Added

WHITE—72¢ per lb.*

COLORS—82¢ per lb.*

*50 lbs. minimum quantity.

(Colors may not be combined for minimum order.)

Light Blue
Black

Turquoise
Green

Chartreuse
Scarlet

"Sno-Stick"

Adhesive for Two-gun Flocking
(Nontoxic)

5 Gals. — \$2.50 per Gal.

50 Gals. — \$1.50 per Gal.

POLYETHYLENE TUBES

for display and delivery of
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50¢ in lots of 50 tubes or more.

55¢ each in lesser quantities.

48 ins. wide, 7 ft. long, will accommodate trees from 5 to 8 ft. These tree covers are the best covering you can get for flocked trees. It's possible to actually get more money for a tree when wrapped in polyethylene than when not wrapped.

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knowledge of nonroot plant nutrition." Mr. Alampi was also to make a later presentation of a gold medal certificate to Miss Dorothy Nickerson, Washington, D. C., for her development of the Nickerson Color Fan.

Glenn Raines, of the Iowa State Horticultural Society, accepted the citation for Arie F. den Boer, Des Moines, Ia., which was awarded for Mr. den Boer's "outstanding work in assembling, in Water Works park, Des Moines, the greatest collection of flowering crab apples in this country." Dr. A. C. Hildreth, Cheyenne horticultural field station, Cheyenne, Wyo., was guest speaker at the banquet. Flowers for the congress were donated by the Colorado wholesale florists.

STOCK VALUE

The small business administration has worked out a formula for determining the value of nursery stock in the field, reports a recent News Letter of the American Association of Nurserymen. To establish the actual loss from inventory count after a disaster situation in the northwest, the SBA decided that in the case of a wholesale grower the wholesale price less 20 per cent should be the accepted value, while for the retailer an 80 per cent increase should be added to the wholesale price.

Although this formula has not been uniformly accepted, there is no other formula with more general acceptance. Its value for inheritance and estate tax purposes is also sug-

gested. However, it is pointed out in the A. A. N. report, a more equitable figure might be reached if the average of the prices for an item listed by three wholesale nurseries were used as the base.

FLOWERCREST is the name of a new nursery and greenhouse business operated by George Brierley at 99 Wooster street, New Britain, Conn.

JOSEPH M. FEIO has started a retail nursery at R. D. No. 2, Box 83, Tarentum, Pa., growing ornamental shrubs for retail sale.

J. & E. NURSERY, 539 Meyers street, Confluence, Pa., was recently opened by John W. Hyde, Jr.

PLANT NOTES HERE AND THERE

By C. W. Wood

Platycodon Nova

The name, nova, given the dwarf platycodon that has come on the American scene recently, has me puzzled. Platycodon, so the botanists say, is a genus of campanulaceae composed of one species, *Platycodon grandiflorum*. One would scarcely believe that possible if he were to notice the many specific names used in nursery lists through the years (my incomplete file shows 10 specific names used), but even a non-botanist can tell that characters are not present to set any of the kinds apart as distinct from the others.

There are differences, of course, between the different kinds, though those differences are in height of plant (from six to 30 inches), size of flower (smallest in variety *micranthum* and largest in variety *mariesi*), color of flower, and time of blooming (early in variety *praecox* and the one now called *nova* to late in variety *autumnale*). There is nothing in *P. nova* that sets it apart from a plant I had years ago as variety *alpinum*, unless it be time of flowering; I cannot find the record of the latter's blooming period. All of which does not detract in the least from the value of *nova* as a garden ornament. It has shown in my trials during the past three or four years that it has all the qualities that have endeared the ordinary balloonflower to gardeners, plus those of low stature (six or seven inches) and early flowering, which fit it for special roles. Best grown from seeds, the plants show some variation in height and flower color, suggesting a field for selection of kinds. For instance, I have one plant that grows only four inches tall.

Bressingham Heucheras

As available in this country, the Bressingham hybrid heucheras are of little interest to the gardener who watches his color schemes, because they are to be had only in a wide range of colors, just as they came from the plant breeder's hand, so far as I know. And that range includes a host of shades from white through pink to red. They also vary in size of flower, height of plant and color and mottling of foliage. Where separate colors are not desired, I know of nothing in heuchera strains that can compare with the Bressingham

hybrids, and it seems to me that they offer a fine field in which the neighborhood nurseryman could commence selecting for improved forms.

Helenium

Last summer, much to my pleasure and instruction, I spent an hour or more viewing a large collection of heleniums. Two kinds impressed me particularly as landscape ornaments. The first of these, *Peregrina*, I had in my trials several years ago. I was most impressed by its height of three feet and its July and August production of large (among the largest that I have seen), subtly yellow-edged, mahogany flowers. The other, *Old Gold Giant*, is a recent introduction of much promise, I believe. It will grow almost four feet tall under good culture, with large (close to an inch and a half across) flowers, old gold on top and bronzed mahogany on the reverse of the petals. It was at the height of its glory when I saw it

in mid-August, with every indication that it would continue well into September. It is a good late summer perennial.

Chrysanthemum

I make no pretense of trying to keep up to date on chrysanthemum introductions, knowing that I would be doomed to failure if I were so foolhardy as to attempt the task, but three new kinds that I have seen deserve special mention. The first, *Golden Carpet*, is one of the best edging and rock garden chrysanthemums that I know. Each plant reaches about two feet in diameter, with a flat, carpetlike growth not over a foot high, and literally covers itself with double golden yellow flowers, to two inches across, from the last week in September onward. The plants that I observed have been in a garden through two winters that brought temperatures of 10 degrees below zero; so it must be hardy.

The first time that I saw the vari-

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18 varieties in different grades.
Special offering on *Viburnum carlesi*.

Standard-stemmed *Viburnum carlesi* in 1 to 3-yr. heads, grafted on sturdy *Viburnum lantana* stems, 3½ to 4 ft. tall.

Write for special list on these and other items.

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UNUSUAL ORNAMENTAL MATERIAL

SPECIMENS

- 125 *Carpinus betulus*, 4 to 5 ft.
- 55 *Carpinus betulus*, 8 to 10 ft.
- 50 *Carpinus betulus fastigiata*, 6 to 8 ft.
- 50 *Crataegus phaenopyrum*, 10 to 12 ft.
- 250 *Crataegus phaenopyrum*, 5 to 6 ft.
- 500 *Euonymus alatus compactus*, 2 1/2 to 3 ft.
- 85 *Fagus sylvatica asplenifolia*, 3 to 4 ft.
- 175 *Fagus sylvatica purpurea riversi*, 4 to 5 ft.
- 150 *Magnolia soulangeana*, 5 to 6 ft.
- 100 *Magnolia virginiana*, 5 to 6 ft.
- 100 *Oxydendrum arboreum*, 5 to 6 ft.
- 70 *Picea pungens*, 4 to 5 ft.
- 175 *Pseudotsuga taxifolia*, 5 to 6 ft.
- 1000 *Viburnum*, in variety, 5 to 6 ft.

TRANSPLANTED SHADE TREES

- 250 *Acer platanoides*, 1 3/4 to 2-in. cal.
- 100 *Acer platanoides* Crimson King, 1 1/2 to 1 3/4-in. cal.
- 225 *Acer platanoides* Faassen's Black, 6 to 8 ft.
- 200 *Acer rubrum*, 2 to 2 1/2-in. cal.
- 100 *Acer saccharum*, 1 3/4 to 2-in. cal.
- 75 *Fagus grandifolia*, 6 to 8 ft.
- 125 *Ginkgo biloba*, 2 1/2 to 3-in. cal.
- 100 *Gleditsia triacanthos* Sunburst, 8 to 10 ft.
- 25 *Liquidambar styraciflua*, 2 to 2 1/2-in. cal.
- 50 *Quercus borealis*, 2 to 2 1/2-in. cal.
- 200 *Quercus palustris*, 2 to 2 1/2-in. cal.
- 250 *Quercus fastigiata*, 6 to 8 ft.
- 150 *Tilia cordata*, 6 to 8 ft.
- 75 *Tilia tomentosa*, 8 to 10 ft.

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ety Ashes of Roses, on a dull fall day, it did not seem particularly impressive. The next day, under a brilliant sun and a blue sky, it was one of the most distinctively lovely chrysanthemums that I have seen. I do not know how to describe the color unless I call it a sunlit old rose, but that does not do full justice to an unusually entrancing shade of pink. One must see it to appreciate its qualities. The plant reaches a height of 30 inches, making a good border subject, and covers itself with medium-size (three inches across), fully double flowers for a long time in autumn. I saw it in early October, when it apparently had been in flower for two weeks or more, and would no doubt continue until heavy frosts discouraged its exuberance.

Most of the large-flowered chrysanthemums are too late (late October and November) to be of use to the outdoor gardener in the north, but one, Golden Age, with a late September blooming period, should normally flower in the open even here at latitude 45 degrees north and it surely would be an eye opener in the cloth houses or under shade. I shall try it next year grown to a single stem and disbudded to one bloom, which should exceed the 6-inch size that I saw on 3-stemmed

Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.

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6 to 8 ft. \$3.50 \$35.00
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All trees are full-headed and low-branched as Sweet Gum should be grown.

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	10 rate	100 rate
5 to 6 ft., B&B	\$ 3.00	\$ 2.75
6 to 8 ft., B&B	5.00	4.75
8 to 10 ft., B&B	7.50	7.00
1½ to 2-in. cal., B&B ..	12.00	11.50
2 to 2½-in. cal., B&B ..	15.50	15.00

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Choice landscape material at attractive prices.

Buxus sempervirens, 12 to 15 ins. to 2 to 2½ ft.
Elaeagnus fruitlandi, 1½ to 2 ft. to 4 to 5 ft.
Euonymus kiautschoviensis, 1½ to 2 ft. to 4 to 5 ft.
Ilex cassine, 3 to 4 ft. to 5 to 6 ft.
Ilex convexa (bullata), 12 to 15 ins. to 18 to 24 ins.
Ilex rotundifolia, 15 to 18 ins. to 2 to 2½ ft.
Ilex opaca howardi, 2 to 3 ft. to 4 to 5 ft.
Ilex vomitoria, 2 to 3 ft.
Jasminum floridum, 1½ to 2 ft. to 3 to 4 ft.
Ligustrum japonicum, 2 to 3 ft. to 4 to 5 ft.
Ligustrum lucidum, 1½ to 2 ft. to 2½ to 3 ft.
Ligustrum lucidum repandens, 1½ to 2 ft. to 2½ to 3 ft.
Mahonia japonica bealei, 12 to 18 ins. to 2 to 2½ ft.
Nandina domestica, 15 to 18 ins. to 2 to 2½ ft.
Osmanthus fortunei, 1½ to 2 ft. to 3 to 2½ ft.
Osmanthus ilicifolius, 1½ to 2 ft. to 3 to 2½ ft.

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plants last fall. The color is a clear golden yellow, making it an ideal "football" chrysanthemum.

Anchusa Loddon Royalist

Anchusa azurea (formerly *Anchusa italica*) is a really noteworthy summer-blooming perennial, and any improvement on the type, such as variety *Dropmore* and now *Loddon Royalist*, is to be reckoned with. When I read about the latter after the close of the 1957 Chelsea show, all the nice things said about it, including "one of the outstanding novelties among hardy perennials of recent years," made me wonder if it could be as good as was claimed. Since then I have had three or four letters from members of the trade in England, and I must conclude from the tenor of their reports that *Loddon Royalist* will live up to its advance notices. I have rarely been disappointed in a perennial that was able to capture the award of merit at Chelsea; so I am looking forward with pleasure to growing this one, and I will not have to wait long, for I understand that it will be introduced in this country in the spring of 1958.

A brief resume of the plant's many good points as I have them from the show reports and from letters follows: It grows about three feet tall, making a sturdy (no need for staking as there is in many *azurea* forms), much-branched bush, covered with its large dark blue (purple blue, some reports describe it) forget-me-nots over the usual long season of this *anchusa*.

Stephanandra Incisa Crispa

It is not apparent from the available literature just how much cold this member of the rose family will stand, but *Stephanandra incisa* is perfectly hardy here in northern Michigan, and there is no apparent reason why variety *crispa* would not be able to duplicate the parents' performance. So one can safely assume, I suppose, that it would be hardy in all parts of the country except the upper Mississippi valley, the northern plains and plateau areas and extreme northern New England. Wherever it can be grown, it should make a splendid addition to the nurseryman's list of small shrubs, either for a front position in the shrub border, as an underplanting in open woods, or as a specimen. Its small white flowers in a compound raceme are of little consequence as ornaments, but its finely cut leaves give it a special grace that will be found useful in many stiff compositions, and its crowning glory comes in autumn when it takes on brilliant reddish-

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Canaerti Burki
 Hilli (Dundee) Schotti
 Keteleeri Scopulorum
 Virginiana glauca

ARBORVITAE

Berckmans Golden Excelsa

SUTTON NURSERY & LANDSCAPE CO., INC.

Box 542, Independence, Kan.

Phones: 420 or 620

(3 miles east on U. S. 160)

QUALITY STOCK

	Each
Andorra Juniper (<i>Juniperus horizontalis plumosa</i>) 6 to 10 ins.	\$0.05
Burk Juniper (<i>Juniperus virginiana burki</i>) 6 to 12 ins. ....	.14
Pfitzer Juniper 6 to 10 ins. ....	.08
Forsythia Lynwood Gold 6 to 10 ins. ....	.05
Forsythia Spring Glory 6 to 10 ins. ....	.04
Euonymus patens Small, medium or large-leaved 6 to 10 ins. ....	.04

All above are outdoor plants in full sun. Shipment any time.

See classified ad under lining-out stock for other items. Less than 300, total order, add 2c per plant.

MCININCH GREENHOUSES

St. Joseph, Mo.

Mention The American Nurseryman when you write.

LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings.
 \$12.00 per 100, \$100.00 per 1000.
 These are very heavy stock ready for direct field planting.

BEARDSLEE NURSERY Perry, O.

SHERMAN'S LINING-OUT EVERGREENS

We specialize in growing evergreens for lining out, and with our new modern irrigation system and large storage facilities we can assure our customers trees of good quality, properly dug and packed for shipment. We do not store evergreen liners, but dig and pack each customer's order individually.

ARBORVITAE (Chinese)		Per 100	Per 1000	PINE, Ponderosa		Per 100	Per 1000
6 to 8 ins., S.....		\$ 5.50	\$ 50.00	4 to 6 ins., S.....		\$4.00	\$35.00
8 to 10 ins., S.....		7.50	70.00	8 to 10 ins., S.....		7.00	65.00
FIR, concolor				10 to 12 ins., S.....		9.00	80.00
2 to 4 ins., S.....		5.50	50.00	PINE, Scotch			
4 to 6 ins., S.....		8.00	75.00	4 to 6 ins., S.....		4.00	35.00
FIR, Douglas				8 to 10 ins., S.....		6.00	55.00
4 to 6 ins., S.....		6.50	60.00	10 to 12 ins., S.....		8.00	75.00
6 to 8 ins., S.....		8.50	80.00	SPRUCE, Black Hills			
6 to 12 ins., T.....		11.00	100.00	2 to 4 ins., S.....		3.50	30.00
PINE, Austrian				4 to 6 ins., S.....		4.50	40.00
4 to 6 ins., S.....		5.50	50.00	SPRUCE, Colorado Blue			
6 to 8 ins., S.....		6.50	60.00	4 to 6 ins., S.....		4.50	40.00
PINE, Mugho (Dwarf Strain)				6 to 8 ins., S.....		5.50	50.00
2 to 4 ins., S.....		4.00	35.00	8 to 10 ins., S.....		8.00	75.00
4 to 6 ins., S.....		5.00	45.00	SPRUCE, Norway			
6 to 8 ins., S.....		8.00	75.00	6 to 8 ins., S.....		5.00	45.00
PINE, Norway				8 to 10 ins., S.....		6.00	55.00
2 to 4 ins., S.....		4.00	35.00	10 to 12 ins., S.....		8.00	75.00
4 to 6 ins., S.....		5.50	50.00	SPRUCE, White			
				4 to 6 ins., S.....		4.50	40.00
				6 to 8 ins., S.....		5.50	50.00
				8 to 10 ins., S.....		6.50	60.00
				10 to 12 ins., S.....		8.00	75.00

Our new complete wholesale trade list is just off the press. Write for a copy.

SHERMAN NURSERY CO.,

Charles City, Iowa



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

purple fall colors. Its height of six feet, more or less, fits it for many roles.

Helenium Copper Spray

It takes no more than an ordinary helenium to excite me, and when one as good as Copper Spray comes along I am all agog. The color is hard to describe, because it seems to combine all the shades—orange, copper, bronze and red—that I have ever seen in a helenium and combine them in a most attractive way, making the plant one of the bright spots in the late summer and autumn (early or mid-August to frost) garden. It is one of the taller kinds, making a bushy growth to three feet in height, perhaps four feet under good culture, which makes it possible

for a mature plant to produce literally hundreds of large (close to an inch and a half across) showy blooms. A splendid plant for landscape and cut flowers purposes, it needs little care, growing for several years without attention, other than the clearing away of annual growth at the end of each season and occasional fertilization.

Thuja Hetz Midget

I have not seen any miniature shrub in years that captivated me as the Hetz Midget arborvitae has. During the years that my three plants have been under test here, they have grown into specimens one foot tall and about 10 inches broad, resembling miniature globe arborvitaes. And that is about as large as

they will ever be, though there are indications that they may spread out another two or three inches. There is a wide field of usefulness for such a charming little midget—myriad places that it can fill in home landscapes.

Geranium Wargrave Pink

This hardy geranium is included here because of its reputation for being an improvement on the type endressi, and anything that is better than that lovely Spaniard is something to be taken into account. Not having seen G. e. Wargrave Pink, I can only speak from hearsay, relaying the report that it produces a profusion of clear pink flowers from June to late September. But I can speak highly of the parent, and the

ANSWER MORE CUD

VIBURNUM ichangense

Fast growing with graceful branches and deeply veined leaves.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>
.20	.50

VIBURNUM odoratissimum. Sweet Viburnum

Evergreen shrub. White flowers. Large thick green leaves.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>	<u>5-Gal.</u>
.18	.50	1.85

VIBURNUM tinus robustum

Medium-sized evergreen shrub with luxuriant deep green foliage. Has white flowers blushed with pink.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>	<u>5-Gal.</u>
.18	.50	1.85

VIBURNUM burkwoodi

Hardy deciduous shrub producing large waxy white, pink-flushed flower clusters. Has a Gardenia fragrance.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>	<u>5-Gal.</u>
.20	.60	1.85

VIBURNUM tomentosum plicatum grandiflorum

Produces pure white flowers perfectly rounded 3" to 4" across. Clean foliage. Very hardy. Deciduous.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>
.18	.50

VIBURNUM japonicum

Compact evergreen shrub with large glossy-green leaves. Produces white flowers.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>	<u>5-Gal.</u>
.18	.50	1.85

VIBURNUM opulus sterile. Eastern Snowball

Hardy deciduous shrub to 8 feet produces globular clusters of pure white flowers in May and June.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>
.18	.50

VIBURNUM dilatatum. Linden Viburnum

Dense and compact habit of growth with nice green foliage followed by bright red berries. Deciduous.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>
.18	.50

VIBURNUM mariesi

Heavily veined dark green leaves. Produces white flowers in spring. Very showy. Deciduous.

<u>2 1/4" Pot</u>	<u>1-Gal.</u>
.18	.50

**ORDER VIBURNUM
NOW TO SECURE
YOUR STOCK FOR
NEXT SPRING**



CUSTOMERS' QUESTIONS

with

Versatile Viburnum

Yes, by stocking viburnum you can supply the home gardener with the answer to many of his landscaping problems—for what is so versatile as viburnum?

Sell it for hedges—sell it for screening. There are many viburnum varieties. While some grow tall others remain compact. It can be deciduous or evergreen. Some offer snow ball-like flowers while others blush their blooms with pink. Other varieties offer their pleasing dense green foliage. Viburnum can show off a fancy, heavily veined leaf while another will display a variegated leaf. And still other viburnum will burst forth with an abundance of flaming red berries. All MN viburnum is husky and hardy—easy for the home gardener to see pleasing results. Yes, there's hardly anything your customer can ask for where the answer isn't VERSATILE VIBURNUM.



See page 75 of the 1957-58 MN catalog for complete list and prices. If you don't have the new MN catalog, write today for your FREE copy. More color photos than ever before! Packed with valuable information.

**DON'T FORGET TO PUT VIBURNUM
ON YOUR NEXT ORDER**



MONROVIA NURSERY CO.

P.O. BOX Q, AZUSA, CALIFORNIA

DAPHNE CNEORUM (Garland Flower)

This beautiful evergreen subshrub is acclaimed by leading horticulturists as the finest available in its category. Unexcelled as an edging or specimen in front of foundation plantings. Highly scented, rose-pink flowers cover the foliage in spring, bloom intermittently in summer and quite fully again in autumn. The plant itself never grows taller than 8 to 10 ins. Our strain has proved hardy and easy to grow. Complete planting directions furnished with each shipment. The material supplied is ideal for potting, canning or lining out in the field. Every year is a sellout, so order now to avoid disappointment.

2-in. pots	Per 10, \$3.00; Per 100, \$25.00
1-yr., 6 to 9 ins.	Per 10, \$4.00; Per 100, \$35.00
1-yr., 9 to 12 ins.	Per 10, \$5.00; Per 100, \$45.00

HARDY CHRYSANTHEMUMS

Our list contains the newest and best varieties available in the country. Plants furnished are fully developed, field-grown clumps, ideal for use as stock plants for your propagations. Write for our complete list of Mums and fine perennials.

P. O. Box 189

THE JOSEPH F. MARTIN CO., INC.

Painesville, O.

new variety has evidently inherited most of the type's good points. Those include an amiable disposition, which permits it to give a good account of itself in sun or shade (not too dense, though) and in good soil or poor. It will always reward the gardener with a long season of soft rose-colored (raspberry ice, said the meticulous Bowles) flowers, more than an inch across.

Veronica Icicle

A lot of things have been happening in the speedwell family during late years, some of the visible effects being exciting and others quite mediocre. It did not take me long to decide, for instance, that the ones with a pale pink color needed a great number of flowers open at the same time to attract attention. Icicle, however, a new white variety, has made a highly favorable impression on most observers.

Its parentage is not apparent from the information at hand. I probably could not interpret it if it were available, because the systematists have been busy in the genus, with the result that many kinds have been taken out of veronica entirely, many of the old familiar names are no longer valid and at least one new generic name has been invented to confuse the gardener. However, the important thing is that Icicle is a really good garden plant, being attractive in its white spires throughout the summer. It grows to a height of almost two feet in ordinary border soil, with about 15 inches of the growth devoted to producing pretty white speedwell flowers. This floriferousness, combined with silvery foliage, makes Icicle a splendid ornament when the perennial garden needs it. It multiplies quite rapidly, but I should not expect it ever to become weedy.

ADDITIONS at the Ten Oaks Nursery, Clarksville, Mich., are a lath house covering one-fourth acre and a concrete cistern of 32,000 gallons' capacity.

NORTHERN-GROWN STOCK

Evergreen Liners
Bleeding Hearts
Ornamental Shrubs
Fruit Trees
French Lilacs
Philadelphus Minnesota Snowflake
(Plant Patent No. 538).
Send for list.

J. V. BAILEY NURSERIES

ST. PAUL 6, MINN.

ARMINTROUT'S EVERGREEN NURSERY ALLEGAN, MICH.

Seedlings—Transplants
Finished Stock
Send for price list.

Scarff's Nursery

FRUITS
ORNAMENTALS
LINING-OUT STOCK
Send for Complete Trade List.
NEW CARLISLE, O.

Seedlings and Transplants

NEWPORT NURSERY CO.
NEWPORT, MICH.

Stock that is hardy.

WHOLESALE
SUMMIT NURSERIES, INC.
STILLWATER, MINN.

ILEX ROTUNDIFOLIA

Heavily rooted, field-grown shrubs.
Bare-root only.

	Per 100	Per 1000
8 to 10 ins.	\$40.00	\$350.00
10 to 12 ins.	50.00	450.00
12 to 15 ins.	75.00	675.00

BEARDSLEE NURSERY Perry, O.

EUONYMUS RADICANS RECTUS

(Berryhill Strain)

	Per 100	Per 1000
1-yr., bed, XX	\$25.00	\$200.00

GILSON GARDENS
Perry, O.

GREEN PFITZER JUNIPER

Well-Sheared, B&B

	Each
18 to 24 ins.	\$2.00
24 to 30 ins.	2.50
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 48 ins.	3.50

Irish Juniper
3 to 4 ft. 2.25

Cuspidata densiforma Yew
24 ins. 5.00

Silver Maple
1 3/4-in. cal., B. R. 1.50

Chinese Elm
1 3/4-in. cal., B. R. 1.50

NEUMANN BROS.

R. R. 4 Greenville, Ill.
Phone: 877-W1

FLORAL GARDENS



Growers of Lining-Out Stock
Taxus—Pyracantha—Cotoneaster
Shumardi Oak Seedlings
Send for complete list.
EATON, OHIO

Over 100 Years' Nursery Experience

ILGENFRITZ NURSERIES, Inc.

The Monroe Nursery
MONROE, MICHIGAN
GET THE BEST BUY ILGENFRITZ

AMERICA'S BEST SOURCE FOR HARDY PLANTS

Write for Trade List MENTOR, OHIO
Wayside Gardens

Poinsettia Plants for Christmas

Excellent quality, good foliage, large flowers. All sizes and prices.

GEORGE OTTMANN & SON

301 N. Marshall Rd. Bensenville, Ill.
Phone: POrter 6-0522



EVERGREENS

Growers of Quality Evergreens
Lining-out Stock a Specialty

Write for Trade List

EVERGREEN NURSERY CO.
Established 1864 : STURGEON BAY, WIS.

CHRISTMAS TREES FOR PLEASURE AND PROFIT
By Chapman and Wray. 215 p. illus. (1967) \$3.75.
American Nurseryman Chicago 4.

All of our cuttings are rooted in soil. As soon as they root, they usually begin to make some new growth—often a great deal—and always begin to develop a hard, secondary root system. After a few months many are about equal to light bed-grown liners, although we continue to call them rooted cuttings.

So that you can judge what we are offering, we give the month in which the cuttings were rooted. That is, "RC June 57" would mean cuttings rooted during June, 1957, which have been growing in the soil in which they were rooted ever since. The amount of growth and the development of the root system will be in proportion to the time that has elapsed since they were rooted.

All plants go through our normally severe winters outside, so you can depend on receiving thoroughly hardened and dormant liners. However, spring does come early here. Some varieties will show activity by March 10 and nearly all begin some growth by the first of April, so please order early.

BG—bed-grown RC—rooted cuttings
FG—field-grown Mo., Yr.—date rooted
T—transplanted S—seedling

Berberis Crispum—BG, liners, 6 to 8 ins., 25c.

Berberis julianae—The hardiest evergreen barberry—RC, July 57, 9c.

Berberis julianae nana—Compact growth, darker green leaf, often called "BPI"—RC, July 57, 10c.

Berberis mentorensis—RC, July 57, 7c; per 1000, 6c; BG, 9 to 12 ins., 12c.

Chaenomeles (Flowering Quince)—Both on own root from softwood cuttings. No suckering from these plants.

Nivalis—The best of the white-flowering quinces—BG, liners, 6 to 12 ins., 18c; 12 to 18 ins., 24c.

Texas Scarlet—The best for canning because of the profuse red flowers on a compact low plant—BG, liners, 6 to 12 ins., 20c.

Cherry Laurel—See *Prunus*.

Cydonia—See *Chaenomeles*.

Ilex cornuta burfordii—RC, July 57, heavy, 6 to 12 leaves, 8c.

Ilex cornuta femina—RC, July 57, heavy 6 to 12 leaves, 8c.

Ilex crenata convexa (bullata)—RC, July 57, 7c.

Ilex crenata hetzi—RC, July 57, 8c.

Ilex crenata rotundifolia—RC, Aug. 57, 7c.

Ilex opaca (American Holly)—Northern types—No southern hybrids. Guaranteed female and guaranteed male from cuttings, BG, liners, 4 to 6 ins., 17½c; 15 to 30 ins., for canning in gallon cans, mostly single stem, some lightly branched, 50c. *Ilex opaca* shipped only on March 1, 1958 (because that is the very best time to move American Holly). Also see plantainer can list.

Laurocerasus—See *Prunus*.

Mahonia bealei—1-yr., seedlings, growing in outside beds, just right for potting, 6c; BG, 2-yr., 4 to 6 ins., 11c.

LINERS

FROM OPEN BEDS
AND FIELD ROWS



Foremost in intermittent mist propagation.
Originator of the Electronic Leaf Control.

Prunus laurocerasus schipkaensis (Laurel Cherry)—RC, very large and heavy, July 57, 10c.

Prunus laurocerasus zabeliana (Laurel Cherry)—RC, July 57, 10c.

Prunus laurocerasus officinalis (English Laurel)—RC, July 57, 10c.

VIBURNUMS—All are on their own roots from softwood cuttings. They should be shipped by the first part of March and will keep perfectly if heeled in until planting time (the earlier the better).

Viburnum burkwoodii—FG, T, somewhat light, 12 to 18 ins., 40c; 18 to 24 ins., 60c.

Viburnum carlesii—RC, June 57, 15c.

Viburnum chenaultii—More shapely and attractive than burkwoodii, nearly evergreen, should soon supplant burkwoodii—RC, June 57, 8 to 12 ins. and up, 15c; FG, a little light, BR, 18 to 24 ins., 35c.

Viburnum juddii—Better than carlesii. A more compact plant with more attractive leaves, not subject to leaf spot, flowers really pink!—RC, June 57, 15c; field-grown, excellent plants, 15 to 18 ins., 90c; 18 to 24 ins., \$1.25.

Viburnum macrocephalum sterile

Viburnum tomentosum mariesii

Viburnum rhytidophyloides

All three sold out for this year.

Viburnum rhytidophyllum (Leather-leaved Viburnum)—RC, July 57, 12c; BG, liners, not branched, 18 to 24 ins., 25c.

Weigela vaniciei—BG, single cane, 18 to 30 ins., 17½c.

IN PLANTAINER CANS

Ilex opaca—Male and female, from cuttings, sex guaranteed.

Viburnum juddii—A luxury item for your discriminating trade.

Juniperus hetzi—Good full plants.

Ilex vomitoria—With red berries.

Osmanthus americana—Uniform plants from cuttings.

And only a few of these rare ones

Viburnum macrocephalum sterile (Chinese Snowball)—The flowers are often 8 ins. in diameter!

Ilex latifolia—Dark green leaves up to 6 ins. long, red berries.

Viburnum rhytidophyloides—Similar to rhytidophyllum but is hardier.

Ilex pedunculosa—Long stalk holly.

Truck pickup only—No shipping on cans.

These plants are unusually well-grown and must be seen to be appreciated. We can pick out fancy lots of even size for you at very attractive prices.

Our stock block now furnishes more cuttings than we can use. If your customers want unusual plants of the best varieties in finished sizes maybe we can find them there. Let's look whenever you are here. FREE PACKING, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.

HARVEY TEMPLETON, JR.

phytolektor.

U.S. HWY. 94-41A
WINCHESTER — TENNESSEE

GEORGIA FAIR EXHIBIT

An educational exhibit of the Georgia State Nurserymen's Association, built around the theme "Know Quality Plants," attracted many visitors at the horticultural show of the southeastern fair held recently at Atlanta, Ga. Two weeks of rain prior to the opening of the fair made digging of plants impossible, but an effective display was created by the association with container stock, including trees and flowering plants, and with aucubas, several *Ilex* varieties and photinias, which had already been dug and balled.

Nurseries that cooperated in the display by furnishing plants and materials were Atlanta Garden Center, Golden State Nurseries, H. G. Hastings Co., Symmes Nursery, Monroe Landscape & Nursery, Curran Nursery and Norman C. Butts, all of Atlanta, and the William Wallace Nursery & Landscape Co., Decatur.

WHOLESALEERS' REPORTS

[Continued from page 11]

be good or that prices should not remain firm. There are more people than ever working at the selling end of the nursery business and more people to sell to, because of the ever-increasing number of homes being built."

Pennsylvania Sales Steady

Excellent fall sales and indications of a successful spring season are reported by A. L. Pallack, Pallack Bros. Nurseries, Inc., Harmony, Pa., who writes:

"Our fall season this year was up to expectations, with the volume equal to that of 1956 or a bit better. Our bookings for spring, 1958, are ahead of last year's, with good call for heavier liners, which can be finished quickly or potted for the retail trade.

"The labor supply is better now,

and we believe that we will have all the extra help we will need to fill spring orders. We have eliminated many problems arising from operations facing labor shortage, through mechanization of transplanting and the use of herbicides in weed control. We cover more than 30 acres of machine-planted beds with herbicides, cutting our labor bill well in half. The use of mulches has also aided in this cost reduction.

"If new housing continues near its present level, we see no reason why the demand for ornamental nursery stock should decrease. We look forward to 1958 with optimism for all nurserymen who have good nursery stock and services to offer.

"Many nurserymen may feel that the industrial breather through which we are going may cut our business, but in the long run it seems certain that the population increase and the general upward movement

ORIENTAL MAGNOLIAS SOULANGEANA AND ALEXANDRINA

These are the finest we have ever seen. They are very bushy and well-budded. Can be shipped before January 15 with dormant buds. They can be stored in any cool, protected place until blooming time. 500 or so can be hauled for 40c per mile, one way from Mobile.

	Per 10	Per 100
2 to 3 ft., field-grown, budded.....	\$17.50	\$160.00
3 to 4 ft., field-grown, budded.....	22.50	200.00
4 to 5 ft., field-grown, budded.....	30.00	250.00
5 to 6 ft., field-grown, budded.....	40.00	350.00

No L.C.L. shipments. 25 or more take 100 rate. Write for our container-grown stock list.

BLACKWELL NURSERIES
SEMMESE, ALABAMA

SUGAR MAPLE, CHINESE ELM AND SILVER MAPLE

Excellent nursery-grown trees, in quantity.
6 to 8 ft., 8 to 10 ft., 10 to 12 and 14 ft.

ALSO

Pink Dogwood Flowering Crab Fruit Trees
White Dogwood Crape Myrtle Grapevines

Prices on request.

SHAHAN NURSERIES TULLAHOMA, TENN.

COMPLETE WHOLESALE PRICE LIST NOW READY FOR MAILING

LINING-OUT and FINISHED STOCK

TREES — FLOWERING SHRUBS
PRIVET — VINES — EVERGREENS

Write for your copy today if not on our mailing list.

FOREST NURSERY CO., INC.
McMINNVILLE, TENN.



AZALEAS

Broad-leaved Evergreens and a
general line of quality ornamentals.

THE TANKARD NURSERIES
EXMORE, VA.

WE SPECIALIZE IN FINE Azaleas and Camellias

Write for Catalog

FLOWERWOOD NURSERY

GREGORY L. SMITH, Owner

Rt. 1, Box 130 MOBILE, ALA.

GOLDEN VICARY PRIVET

Lovely, solid, golden-leaved variety. Extremely
adaptable for a striking border. Retains full
golden color from spring to fall. Beautiful for
rose bed borders. Should have full sun.

Potted liners Per 100 Per 1000
Rooted cuttings \$18.00 \$150.00
18.00 80.00

BEARDSLEE NURSERY Perry, O.

Bentley's

HARDY PLANTS

QUALITY—SERVICE
Perennials a Specialty.
2559 Mentor Ave. MENTOR, O.

of the economy will account for better future business conditions."

Rains brought substantial improvement in late September, with prospects of topping the 1956 season, writes C. B. Staton, Possum Hollow Nurseries, Philadelphia, Pa., in the following comments:

"Due to the longest sustained drought on record, extending from mid-spring until mid-September, fall business was off to a poor start, but with the advent of several penetrating rains, sales began rolling in late September, and we are all gaining back lost ground and will probably top last fall, with some sales to spare.

"Although there has been some falling off in the cash-and-carry garden mart business, there is a heavy demand for specimen plant material for the high-grade homes under construction in the Philadelphia area, and we have sold more finished specimen material this fall than ever.

"In the spring we confine most of our activity to shipping lining-out stock, but reserve a certain amount of our liners for development into finished stock for use in our own landscaping work and for sale at both wholesale and retail in the nursery. In addition, a certain amount of tree work is also completed, mostly in the off seasons, and we find that by so diversifying our business the over-all situation is more satisfactory.

"In checking at a recent Pennsylvania Nurserymen's Association meeting, we found the over-all situation good, with everyone working at top capacity and hoping for a long, open fall season, in which case sales will go considerably ahead of last year's."

Virginia Has "Good" Fall

A small decrease in sales marked the fall trade in Virginia, but good growing weather and spring prospects keep the picture bright, according to the report from S. D. Tankard, Tankard Nurseries, Exmore, Va., writing:

"This fall season was a good one with us in many respects. We had more than average rainfall, and plants put on a good fall growth, as heavy frost did not come until October 29.

"Our volume of business was good, and the demand steady. Many of our customers, especially the plant markets, had a heavy carry-over from spring and also report a slackening of business. This resulted in some decrease in our volume, but the drop was not alarming.

"The fall season is a minor one with us, compared to spring, as it comprises only about 20 per cent of

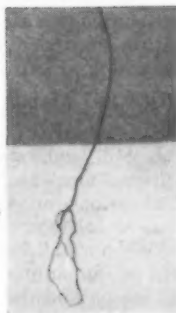
BUYING SCUPPERNONGS?



Our 2-year-old plant

GET THIS

NOT THIS



Two-Year-Old Heavy No. 1

10 to 50	45c each
50 to 100	42 1/2c each
100 to 500	40c each
500 to 1000	35c each
1000 or more	30c each

- Top Sail
- Hunts
- Thomas
- James
- Bronze

WHILE THE SUPPLY LASTS, we offer our fine two-year-old heavy Scuppernongs . . . **ALL** No. 1 plants field-grown.

Don't ship those one-year layers to your customers! Prevent complaints . . . build goodwill with our superior two-year-old plants.

Orders now being shipped. Order direct from this ad for immediate delivery.

TERMS: 2% CASH DISCOUNT. To satisfactory credit risks 2% discount if paid within 10 days from date of shipment. Otherwise 30 Days Net. New credit customers please send credit references to avoid additional shipping delay. **ALL PRICES F.O.B.** No charge for packing. **ORDERS** for more than 10 shipped Railway or Motor Express . . . too large for Parcel Post.

Individually root wrapped with lithographed color label, price on request.

SEND ALL ORDERS TO:

ARAB NURSERY COMPANY

ARAB, ALABAMA

DAY PHONE JU 6-3113 • NIGHT PHONE JU 6-3123

the year's volume. This fact exists largely because azaleas, which we grow in large quantity, are essentially a spring item and also because most of our trade is north of us.

"Our bookings for spring are good. We will have fine stock for that season and anticipate our usual volume or perhaps an increase."

Virginia Demand Strong

"Demand for nursery stock continues strong, corresponding favorably with that of a year ago," reports E. M. Quillen, Waynesboro Nurseries, Inc., Waynesboro, Va. "We are finding competition stronger, stock being quoted at lower prices than those that prevailed a year ago in competitive bidding. This we cannot explain, as operating costs are no lower and as there does not appear to be a surplus in any type of nursery stock."

"Approximately 40 per cent of our annual business is done in the fall, the other 60 per cent occurring during the winter and spring months. We usually start digging and shipping during September and continue until May. There is not much letup between what we call the fall season, ending December 31, and the spring season, which begins immediately."

"The supply of finished nursery

SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the wholesale trade only.

KRIEGER'S WHOLESALE NURSERY

BRIDGMAN, MICH.

stock in general is normal, with the exception that most varieties of fruits are scarce. The supply of young shade tree stock is up, as is the supply of broad-leaved evergreens and shrubs. The cost of packing and shipping by public carrier has increased to such an extent that we find it necessary to limit our distribution area, so that it can be served by our own trucks. Labor is plentiful but more expensive."

Ohio Sales Level Off

"Although nursery sales and plantings in this section may have leveled off somewhat in comparison to recent years, most nurseries had a good volume of business in all departments," writes Howard N. Scarff, Scarff's Nursery, Inc., New



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STOCK and LINERS**

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NURSERIES**

Route 2
RICHMOND, VA.
5 miles west of city on Broad St. Road

Carlisle, O. Mr. Scarff details the season as follows:

"Wholesale demand was good for medium-size evergreens and heavy shrubs in landscape sizes. At present writing (November 9) we need at least two weeks of open weather to get stock in storage for winter. During the past summer we constructed a new storage building 60x120 feet, which will about double present common storage capacity and will materially facilitate handling and packing wholesale orders."

"This fall, for the first time in several years, local help was available to supplement a limited number of Texas farm laborers. For the wholesale nurserymen, the fall season is always an important one, although the volume of sales or de-

SPECIALTY ITEMS

(Quality Stock)

Pfitzer Juniper	Each per 10	Each per 100
15 to 18 ins., B&B ..	\$1.75	\$1.50
18 to 24 ins., B&B ..	2.25	2.00
24 to 30 ins., B&B ..	2.75	2.50
30 to 36 ins., B&B ..	3.00	2.75

Ilex burfordii	Each per 10	Each per 100
15 to 18 ins., B&B ..	1.75	1.50
18 to 24 ins., B&B ..	2.50	2.00
24 to 30 ins., B&B ..	2.75	2.50

Ilex rotundifolia	Each per 10	Each per 100
15 to 18 ins., B&B ..	1.75	1.50
18 to 24 ins., B&B ..	2.25	2.00
24 to 30 ins., B&B ..	2.75	2.50

Berberis mentorensis	Each per 10	Each per 100
15 to 18 ins., B.R. ..	.45	.40
18 to 24 ins., B.R. ..	.55	.50
24 to 30 ins., B.R. ..	.65	.60

Pink-Flowering Dogwood	Each per 10	Each per 100
With bloom buds		
3 to 4 ft., B&B	2.75	2.50
4 to 5 ft., B&B	4.25	4.00
5 to 6 ft., B&B	5.50	5.00

Ligustrum lucidum macrophyllum	Each per 10	Each per 100
2 to 3 ft., B&B	1.75	2.50
3 to 3 1/2 ft., B&B	2.25	2.00

Write for our latest wholesale list

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The following rooted cuttings available spring, 1958, only. These will be shipped in airtight plastic bags.

Buxus sempervirens
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Green Santolina virens
Ilex opaca East Palatka
Ilex rotundifolia
Ilex convexa bullata
Juniperus pfitzeriana
Juniperus Andorra
Juniperus tamarix
Juniperus pfitzeriana compacta
Juniper, Blue Pfitzer
Juniperus hetzi
Juniper, Von Ehron
Juniperus excelsa stricta
Purple-leaved Honeysuckle

Each per 100, 10c; each per 1000, 8c; each per 10,000, 7c.

We will propagate by contract on request, those listed or many other varieties.

PEACE & SON NURSERY

Rt. 1

Siloam Springs, Ark.

liveries may only represent one third of the year's business. It is the time for bare-root shrubs, trees and fruits to be harvested and stored for winter grading in preparation for the all-too-short spring selling and shipping season. We are anticipating continued good business for the spring, 1958, season."

Demand Maintained in Illinois

Fall sales are up 10 per cent, writes J. B. Hill, general manager, D. Hill Nursery Co., Dundee, Ill., in his observations on the season's business, as follows:

"We normally plan to ship 40 per cent of our annual gross during the fall season and the remaining 60 per cent during the spring and early summer months. This year, our fall shipments are up approximately 10 per cent, but bookings for spring are at present down an equal amount. There is, of course, the forthcoming schedule of winter meetings at which we fully expect to recoup any losses to date, for it is felt that there is no slackening in the general demand for nursery stock. The over-all level of business activity continues high and well in excess of any comparable period in earlier years.

"There is good evidence that a market sensitivity to over-all quality is developing, but this, we feel, is fairly normal and actually a good omen for trade in general. Shoddy merchandise, carelessly grown and offered at low prices, actually benefits no one, and, in fact, tends to discourage the buying public, upon whom we all depend.

"There continues to be a greatly increased demand for well-grown container material, and we feel certain that ultimately this modern method of producing nursery plants will supercede any other methods now in use. More and more retail garden centers are beginning to recognize the importance of year-round sales and feel any merchandising plan which offers to extend the all-too-short sales season is worth considering and developing."

Miles W. Bryant, Bryant's Nurseries, Princeton, Ill., sees fall business as "average," commenting:

"Fall business was a little slow to start, but seems to be picking up in good shape at the present time (November 6), and it looks as though we should have an average fall business, providing the weather stays favorable until around December 1.

"We ordinarily handle considerable numbers of peonies during September and early October. The peony business this year was slow; one

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Rives, Tennessee

Wholesale Growers

Evergreens, Trees

Deciduous Shrubs, Roses

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or two exceptionally large orders this fall saved the season.

"Orders for evergreens have been about average. Orders for deciduous stock have been slow, but have been picking up rather rapidly within the past week or 10 days.

"The soil was dry at Princeton during August and early September, but a protracted light rain the end of October totaled three and a quarter inches and put the ground in good shape for fall digging."

Minnesota Results Favorable

Fall deliveries were about equal to last year's, while advance orders are larger, reports Gordon Bailey, J. V. Bailey Nurseries, St. Paul, Minn. Other observations follow:

"We had probably the best weather for fall delivery that we ever had. We also had perfect digging weather to get our stock under storage, and at this writing (November 11) the work is about completed.

"We believe that when our final figures are in, our fall deliveries will be about equal to last year's, possibly a little less. However, our advance bookings for spring, 1958, are running well ahead of last year's at this time, and it appears that our increases are in classes of finished material rather than in lining-out stock.

"Our supply of nursery stock is about normal, but with sales as heavy as they are at this time, we are beginning to run short on many items."

Good Wisconsin Season

Increased sales of shade trees and B&B evergreens contributed to the 20 per cent rise in fall business recorded by Brown Deer Nurseries, Milwaukee, Wis., according to Ralph E. Petranck. His report follows:

"As it has in the past, our fall business this year will account for about 25 per cent of our yearly business. Business has been good with us this fall, and we will show an increase over last fall of about 20 per cent. We have had modest sales increases in B&B evergreens, large increases in shade trees, with shrubs sales remaining about the same as last year."

"In talking with operators of cash-and-carry outlets in the Milwaukee area, we learned that volume seemed to be the same as last year's or, in some cases, less. The landscape business appears to have been good, with continued demand for larger specimen stock.

"During the past summer—June 1 to September 1—we sent out three price lists on summer transplanting of nursery stock. Our sales during this period amounted to 7 per cent

86th Year of Growing

... and that's a lot of guarantee that you will always get quality stock and fast delivery, plus very careful attention to your individual needs and wishes, whether your T.N.C. order is large or small. New accounts cordially welcomed.

J. J. Padnick

MANAGER

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SPIRAEA

Two-year, heavy, field-grown plants. Exceptionally good quality. Available for immediate shipment.

Prunifolia plena	
Reevesiana plena	Per 100
12 to 18 ins.	\$25.00
18 to 24 ins.	30.00
2 to 3 ft.	40.00
3 to 4 ft.	50.00
Vanhouttei	
12 to 18 ins.	15.00
18 to 24 ins.	20.00
2 to 3 ft.	25.00
3 to 4 ft.	35.00
Vanhouttei (hedging)	
Lighter than shrub grade.	Per 1000
10 to 15 ins.	\$65.00
15 to 18 ins.	75.00
18 to 24 ins.	90.00

Write, wire or call for quantity prices. If you have not done business with us, we invite your inquiries on stock of any kind. Let's start doing business together and BOTH make some new friends!

TEXAS NURSERY CO. Est. 1872
Box 88-A Phone: TWinbrook 3-1023 Sherman, Tex.

of our total sales for the year. Losses were negligible. However, we did have plenty of rainfall all summer, and this factor, combined with Wilt-Prufing, contributed heavily to our success. We intend to keep working on this summer transplanting problem."

Midwest Container Sales Up

Increased fall business, particularly in container-grown stock, is reported by John J. Pinney, of the Willis Nursery Co., Ottawa, Kan. He writes:

"We are still in the midst of our fall shipping, but our booking and

billing are considerably ahead of those recorded at this time last year. The area west of here, in which we do a good deal of business, has enjoyed good rains during the past season, breaking the drought of several years' standing. This is reflected in greatly increased business from that section.

"Although we are comparatively new in the container-grown nursery stock business, our sales in that class of merchandise have been most gratifying and have helped to boost our volume. The trade here in the middle west is taking to container plants more readily than we had antic-

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Transplanted — Top-Quality — Well-Spaced
Bare-Root — Lots of 10 or More

	Each
2 to 3 ft.	\$1.00
3 to 4 ft.	1.25
(25c extra B&B)	
4 to 5 ft.	2.25
5 to 6 ft.	3.25
6 to 7 ft.	4.50
7 to 8 ft.	5.50
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Special quotations on large quantities or row run.
Come to see us for Dogwood requirements.

MORaine LOCUST (Plant Pat. No. 836)
Bare-Root

	Each
1 1/2-in. cal.	10 to 49
1 3/4-in. cal.	\$13.50
2-in. cal.	16.50
Twice transplanted.	20.00

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Specimen Evergreens

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MODESTO, CALIF.

ipated, and we now feel quite op-
timistic about the future of contain-
er-grown stock in this part of the
country.

"We have had ample moisture this
fall; so the ground is in excellent
condition. Labor has not been plenti-
ful, because of competition from
building projects. We expect the
cold weather to slow these down and
bring us some relief as far as labor
is concerned."

Midwest Outlook Bright

George L. Welch, president,
Mount Arbor Nurseries, Shenan-
doah, Ia., points out conditions fa-
voring an optimistic outlook as
follows:

"The volume of business handled
by our firm in the fall is quite small
in comparison with spring. However,
I am glad to report that our business
this fall has been very good, run-
ning considerably ahead of any other
fall season we have experienced dur-
ing the past several years. I think
this is partly due to more favorable
weather conditions here in the mid-
dle west, where we have enjoyed a
much better growing season, with
ample rain and better crops.

"Farm labor in this area is tight,
and in our operations this fall we
have had to depend upon some mi-
grant workers. With the ample
moisture we had this fall, operations
are running somewhat behind sched-
ule, and as this is written (Novem-
ber 6) we are probably 10 days to
two weeks behind. However, we
hope the season will be favorable
enough so we can complete our nor-
mal schedule.

"The volume of business booked
for spring is good. Operating costs
continue to be a problem; it seems
that everything is higher. In fact,
each year it seems that we have
some nominal increases in cost for
such items as labor, materials, sup-
plies and equipment.

"Mail-order firms in this area
have enjoyed an excellent volume
of business this fall. The landscape
people whom we have contacted re-
port having all the work they can
handle; so conditions look bright."

Late Pickup in Michigan

Though fall business was irregu-
lar at Ilgenfritz Nurseries, Inc.,
Monroe, Mich., it brought an in-
crease in sales over those of last year,
according to Charles Henton, whole-
sale manager. He reports:

"Favorable weather, with suffi-
cient rainfall during the past sea-
son, has helped develop nursery
stock in this section. Growth has
been excellent on practically all va-
rieties, and all stock will come out

of the ground in perfect condition for winter storage.

"Our wholesale business has fluctuated considerably from week to week, because of the closing of large orders. The season started early, and we made highly satisfactory gains over the corresponding weeks of last year. A slump, during which our total sales dropped to about the level of last year, ended early in November, and we are again showing an increase over 1956 business. On the whole, it has been a good season, but money has become tight lately, and collections are rather slow. We anticipate a good spring season, however."

Drought Lowers Nebraska Sales

G. A. Gritzmacher attributes a lessened demand in Nebraska to the previous three years' drought. Although fall sales are down from the level of last year's at Plumfield Nurseries, Fremont, Neb., Mr. Gritzmacher notes an increase in spring bookings, with deciduous stock in greater demand than evergreens. He writes:

"Ample moisture and cool weather presented us with the most favorable planting conditions that we could have hoped for. However, the demand for nursery stock wasn't too great. In fact, our fall sales ran behind last year's. We depend a lot on rural trade, and, since our area suffered three years of drought previous to this year, the farmers apparently feel they should not spend any more money until after they harvest and sell this year's crop.

"We do have one favorable note to sound—we have more stock booked for spring, 1958, than we had at this same time a year ago. We note that the demand for spring, 1958, is mostly for deciduous stock, whereas a year ago our advanced sales leaned mostly to evergreens, which seem to be selling much more slowly than in previous years.

"We look forward to a good year, as our whole trade area has received ample moisture, crops are good and people are in a much better spirit than they have been for the past three or four years."

Tennessee Year "Profitable"

Collections have not been so good as sales this fall, states Henry Boyd, Boyd Nursery Co., McMinnville, Tenn. Other seasonal factors are given as follows:

"We had a dry September, but October was really a wet month for us. The conditions slowed our digging crews considerably. In fact, we were unable to get digging equip-

Suwannee River



The Southerner That's

INTEGRATED, ACCLIMATED AND DOMESTICATED!

Continuing reports from the east show Suwannee River Ligustrum among the hardiest of the broad-leaved evergreens. It stood 5 degrees below zero at Louisville (east Louisville, that is!)—without damage and 16 degrees below in Delaware.

Reduced prices and attractive freight rates in trailer-load lots make Suwannee River a real profit producer for you. Available in gallon cans as low as **85c** at the nursery and B&B as low as **\$1.00** for 12 to 18-in. grade.

Write for complete wholesale list. A fine assortment of container and B&B plants hardy to Long Island!

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NURSERIES, INC.
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"WIGHT GROWN MEANS GROWN RIGHT"



ment in the fields until the first week of November, and all orders shipped in October had to be spaded by hand, which doubled our digging cost. The weather was nice in November, up to this writing, November 9, and our digging equipment is running in full operation.

"During the summer we built a grading storage room with a split-floor level—wrapping room 24x120 feet and basement storage 50x120 feet. The over-all building is 74x120 feet. This addition will help us to give our customers better service.

"Our fall business usually runs about 25 to 30 per cent of our spring sales, and every indication points to a good year.

"Our collections have not been so good as our sales. Several accounts

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- FRUIT TREES—Standard and Regular
- SMALL FRUITS—Grapes and Berries
- ORNAMENTAL and SHADE TREES
- FLOWERING SHRUBS
- EVERGREENS—Broadleaf and Conifers
- PHYTOTEKTOR GROWN LINERS

OZARK IKE Says:

"All fields under irrigation. Delivery service to your door. Mechanical digging assures entire root system. Evergreens individually tagged for size and variety. B and B stock burlap treated to prevent rot. 125' x 160' cold storage for stock. Radio equipped field trucks speed service."

White for...

Ozark Nursery's NEW wholesale catalog with attractive prices.

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Steele's 1957 Mastodon Seed will be sold only in the Originators' Pack. Any seed not in the Originators' Pack is not genuine Steele's.

Steele's®

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KENTUCKY BLUEGRASS SEED

21 lbs., \$55.00 per 100 lbs.
24 lbs., \$58.00 per 100 lbs.
All types of lawn mix from \$40.00 and up per 100 lbs.

For quantity, inquire. All orders C.O.D.

AFTON SEED CO., Afton, Iowa
Harvester and Processor of Pure Kentucky Bluegrass Seed

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are still on our books from last spring's shipping. Most all of the accounts, we think, will come through later as the season gets under way all over the country. However, with this in mind and with more accounts on the books than usual, we have tightened up on our credit accounts.

"The growing season last summer was one of the best we have enjoyed for a long time. Orders have been coming in at about the same rate as last year, and we are looking for another profitable year."

Good Season in Texas

September and October sales figures are slightly ahead of last year's, reports Steve Verhalen, Verhalen Nursery Co., Scottsville, Tex., but some adjustments upward in prices might account for that. He adds that, while autumn business is never what spring trade is for the firm, it is nevertheless an important factor, because the company's container stock can usually be shipped before the field growers can dig their plants in the frequently dry fall season. This year, with good digging conditions prevailing early in the area, the firm's advantage was not so great, and there were no innovations in materials to mark the year.

The Carl Shamburger Nursery, Tyler, describes business this fall as about normal compared with similar periods in recent years. Shipments have been the same, but it is a little too early to tell about collections, as most accounts are not yet due. Most of the shipping will be concluded by Christmas. However, many plants are held in storage for customers for spring delivery. There has been lots of rain in the area, the firm reports, making this the wettest year on record. Plants are in fine condition after a good growing season.

Texas Rains Help, Hinder

Autumn rains in the vicinity of Tyler, Tex., worked for wholesalers and against retailers, according to Clark Kidd, Arp Nursery Co., Tyler. Mr. Kidd details a season of increased sales as follows:

"With the benefit of drenching rains, Arp rose, pecan and ornamental persimmon sales, up to November 15, are 30 per cent ahead of 1956 sales. However, the same rains that permitted easier, faster tree digging and the delivery of more stock to the retail nurseries are holding retail sales to a low level.

"The packaged or potted trend in rosebush marketing continues. Bare-root rose shipments go into mail-order stock or landscape projects. An occasional note of pessimism is

BIG RIVER NURSERY

Dundee, Miss.

Stock Ready for Shipment

- Abelia grandiflora*, 12 to 14 ins., gal.
- Biota bakeri*, 28 to 30 ins., B&B
- Gardenia*, 12 to 14 ins., gal.; 20 to 24 ins., B&B
- Ilex cornuta femina*, 10 to 12 ins., qt.
- Ilex cornuta burfordi*, 14 to 16 ins., gal.; 10 to 12 ins., qt.
- Ilex crenata bullata*, 10 to 12 ins., qt.
- Ilex crenata rotundifolia*, 12 to 14 ins., qt.
- Ilex opaca Hume*, 24 to 26 ins., gal.; 30 to 36 ins., B&B
- Ilex glabra* (Inkberry), 16 to 20 ins., gal.
- Ilex vomitoria* (Yaupon), 14 to 16 ins., gal.; 14 to 16 ins., B&B
- Juniperus excelsa stricta*, 12 to 14 ins., B&B *
- Juniperus chinensis pfitzeriana compacta*, 12 to 14 ins., B&B *
- Juniperus pfitzeriana nana*, 12 to 14 ins., B&B *
- Laurel, Cherry*, 24 to 36 ins., B&B
- Ligustrum lucidum compactum*, 34 to 38 ins., gal.; 36 to 38 ins., B&B
- Magnolia grandiflora*, 12 to 14 ins., gal.; 12 to 14 ins., qt.; 4 to 6 ft., B&B
- Mahonia bealei*, 12 to 14 ins., gal.
- Nandina*, 12 to 14 ins., qt.
- Photinia glabra*, 12 to 14 ins., gal.
- Photinia serrulata*, 20 to 22 ins., B&B
- Pyracantha formosana*, 10 to 12 ins., gal.; 2 to 3 ft., B&B.

*These plants have been well-pruned for 2 years and will make good specimens for sale.



Beautiful shade, productive too! Prolific varieties. Sizes 1 1/2 to 12 feet. In attractive packages or bare roots. Get stock list and prices.

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Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES
Bridgman, Michigan

PEAR SEEDLINGS

Pyrus calleryana
In limited supply.

WHITEROCK NURSERIES
CROCKETT, TEX.

heard, because the weather enforces idleness. As soon as the sun breaks up the bridge game and unfinished jobs are completed, however, confidence may be restored.

"Ornamental Oriental persimmon trees are seen at nurseries this fall. Their lively foliage and orange, non-puckering fruit, their rapid growth and immediate production and their modest cost are moving grafted persimmon trees upward in southern popularity."

Oklahoma Sales Disappointing

Stock is excellent in Oklahoma, writes J. Frank Sneed, Sneed Nursery Co., Oklahoma City, Okla., but fall sales were not up to hopes and indicate the need for more aggressive selling. He comments:

"Oklahoma and the southwest have plenty of subsoil moisture to draw on through next season. At the start of November a little too much rain slowed business. We have been disappointed in the fall trade, since this is the first year we had plenty of moisture and excellent planting conditions. We find that all lines of business are slow and have been so for 90 days.

"Nursery stock is going into the winter in excellent condition, and the sales for spring should be the heaviest we have had in several years, if good weather conditions prevail. We are also depending on good general business conditions.

"The retail nursery men have found it is now more important than ever to contact their customers personally and do more advertising. Our biggest competition today is from salesmen in the auto, TV, electric appliance and home furnishings industries.

"The supply of stock in the field and in cans is plentiful, but the nursery industry is short of first-class salesmen. The demand for lining-out stock is ahead of last season's, and we are looking forward to a rushing spring business."

California Rose Sales Up

Exceptional nationwide demand for California roses and a good 1957 rose crop are noted by J. Awdry Armstrong, of Armstrong Nurseries. He also predicts heavy commercial planting of new peach and nectarine varieties in the following letter from Ontario, Calif.:

"The demand for California roses from the trade all over the country is increasing each year and is exceptionally good this year. Our pre-season orders increased considerably over what they were a year ago. There is a good crop of roses in California this year. Growing conditions

TOP QUALITY

CORNUS FLORIDA RUBRA (Pink-Flowering Dogwood), from 12 to 18 ins. to 6 to 8 ft.

CORNUS FLORIDA ALBA PLENA (Double-Flowering White Dogwood), from 12 to 18 ins. to 3 to 4 ft.

PRUNUS PERSICA (Flowering Peach), pink, red and white, 3 to 4 and 4 to 5 ft.

PRUNUS NEWPORT, PISSARDI AND THUNDERCLOUD (Purple-Leaved Plum), 3 to 4 and 4 to 5 ft.

SALIX BABYLONICA (Weeping Willow), 3 to 4, 4 to 5, 5 to 6 and 6 to 8 ft.

TREE WISTARIA, Purple, 2 to 3 ft.

BETULA ALBA (White Birch), 6 to 8 and 8 to 10 ft.

MALUS (Flowering Crab Apple), varieties as follows:

Alameda, single, purple-rose flowers, 6 to 8 and 8 to 10 ft.

Almey, bright crimson blossoms, 2 to 3, 3 to 4 and 4 to 5 ft.

Arrow, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.

Atrosanguinea, carmine flowers, 2 to 3 and 3 to 4 ft.

Baccata, single, fragrant white flowers, 2 to 3 and 3 to 4 ft.

Dolgo, single, fragrant white blossoms, 2 to 3, 3 to 4 and 4 to 5 ft.

Eleyi, single, purplish-red flowers, 3 to 4, 4 to 5, 6 to 8 and 8 to 10 ft.

Floribunda, single, fragrant, deep pink flowers, 2 to 3, 3 to 4 and 4 to 5 ft.

Floribunda purpurea, single, purplish-red flowers, 2 to 3, 3 to 4 and 6 to 8 ft.

Geneva, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.

Gloriosa, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.

Hopa, carmine buds and flowers, 2 to 3 through 8 to 10 ft.

Makamik, single, China-rose flowers, 2 to 3, 3 to 4 and 4 to 5 ft.

Red Silver, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.

Scheideckeri, double, pale pink flowers, 3 to 4, 4 to 5, 5 to 6, 6 to 8 and 8 to 10 ft.

We are booking orders NOW. Shall appreciate your requesting our complete Wholesale List. Shipment can be made by commercial truck lines, individual trucks, railway express or railroad freight.

THE SOUTHERN AND NURSERY CO. INC.

AT THE CENTER OF THE SOUTH

Established in 1872

Telephone: WO-7-2302

WINCHESTER, TENN.

have been favorable, and the harvest is about to start.

"Ornamentals are in plentiful supply, and the demand continues to be good, although the big season for ornamentals is in the spring and early summer, when planting is heaviest.

"Home planting of fruit trees is not brisk, because of the small area available for planting about the modern type of home, but important commercial plantings will be made in the fruit-growing areas of California—particularly in the newer peach and nectarine hybrids that fill gaps in the market or offer im-

proved quality not present in the older varieties.

"Those new kinds that ripen earlier than the older kinds are also in strong demand because they offer growers a chance to hit the market, when there is almost no fruit available. I am referring to some of the early peaches, which are marketable in May and which have almost no competition among older kinds, regardless of growing location."

California Fall Trade Grows

"Each year our fall business increases and it is now approximately one third of our total volume of business," Howard Past, president,

PEACH TREES

For Fall, 1957, or Spring, 1958, delivery.

	Per 100	Per 1000
6 to 7 ft., 7/8-in. cal. and up	\$50.00	...
5 to 6 ft., 11/16-in. cal.	45.00	\$400.00
4 to 5 ft., 9/16-in. cal.	40.00	350.00
3 to 4 ft., 7/16-in. cal.	30.00	250.00
3 to 4 ft., 5/16 to 7/16-in. cal.	20.00	175.00

Over 250,000 budded to the following varieties:
Elberta, Early Elberta, Redhaven, Golden Jubilee,
Halehaven, Dixired, Dixigem, Belle of Georgia,
Red Cap, Triogem, Coronet and Keystone.

We can root wrap at a small additional cost.

Special quotations on 10,000 and up.

BAKER NURSERIES

Higginson, Ark.



CHEROKEE CHIEF

(Patent Pending)

*The Newest and Best of the
Flowering Dogwoods*

- Blooms a clean, rich ruby red.
- New growth a bright red.
- Excellent grower.

Write for colored brochure.

COMMERCIAL

Nursery Co.

ESTABLISHED 1900

Decherd, Tenn.

TREE SEED

Concolor Fir Douglas Fir
Now processing 1957 crop.
Immediate delivery.

SAN ISABEL SEED CO.
Silver Cliff, Colo.

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

Perhaps America's largest list of unusual plant materials.

Wholesale catalog on request.

PEARCE SEED COMPANY
Dept. N, MOORESTOWN, N. J.

**Wholesale Growers of Broad-Leaved
and Coniferous Evergreens**

Ask for fall trade list.

LINDLEY NURSERIES, INC.
P. O. Box H Greensboro, N. C.



Monrovia Nursery Co., Azusa, Calif., declares. He adds:

"This is very gratifying, as it enables us to operate in a more efficient and profitable manner. Our business during the past year was the largest year's volume ever experienced by this company. We raised prices approximately five per cent to offset increasing costs. In general, this price increase was welcomed by most retail nurserymen.

"Collections have been most satisfactory during the year, and the quantity of past-due accounts was less than in the previous year. We believe this is due to two main factors: First, careful selection of accounts to whom we allow credit and, second, a tight credit policy.

"Each year the consumer is more quality-conscious, and our operation in general is to increase the quality of our product. We have felt for some time the possibility that nursery stock might be overproduced, and, for this reason, we have set up a new department to assist the retailer in selling our product. This is a long-range program and it will be at least a full year before the program will be effective. Along this line we are also increasing our budget. We believe that the wholesaler has an obligation to the retailer to assist in promoting the product.

"New varieties of plants of real merit and new uses for the commoner type of plant contribute considerably to our increased volume. The demand for container-grown plants in all parts of this country is on the increase. The retailer is becoming more conscious of this type of merchandise. The reasonable price of this type of plant makes landscaping on the do-it-yourself basis available to the increasing number of homeowners.

"We are increasing at a rapid rate our capital outlay for laborsaving devices; high costs of labor and the type of labor available to the nursery industry make this necessary."

Fall Gains at Portland

In reporting sales gains for the fall, A. H. Steinmetz, manager, Portland Wholesale Nursery Co., Portland, Ore., also indicates leveling trends in trade procedures:

"Our sales from July 1, the beginning of our current season, to November 1 are approximately 20 per cent higher than in any previous year for this period. Advance orders for stock to be shipped in the spring are likewise higher than in any previous year. We apparently will handle about one-third of our

season's business before January 1, and we consider this to be normal.

"This might lead us to believe that our situation is very favorable, but we are inclined to keep our fingers crossed until we can actually tell what takes place.

"Collections since July 1 have been slow, caused, we presume, by so-called tight money, and consequently we are checking all credits carefully. We are convinced that the government is serious in its effort to control inflation, and the process of leveling off is sure to take its toll of nursery firms that have not yet become well established.

"While we do not particularly enjoy this period of financial adjustment, we know that it is necessary and in the long run will have a good effect on the nursery industry. Therefore, we believe when we close our books on June 30, 1958, we will find ourselves in a more normal situation and on a more substantial basis than during the so-called era of prosperity.

"Growing conditions were favorable during the summer, and heavy frost during the first week of November has matured both evergreen and deciduous material so that it seems unlikely there will be any injury should we have a severe winter. Digging and grading of deciduous stock is proceeding in a satisfactory manner, and the quality of the stock seems excellent.

"Local nurserymen seem to have less operating capital this fall than usual and are reluctant to borrow freely at present high interest rates. They also are probably less inclined to speculate and more determined than ever to get back on a pay-as-you-go basis. Most growers have taken their losses from freezing good naturedly, but have thus learned the hard way that production must be geared to their ability to produce good-quality stock, and to be sure of a profit, the local price schedule that was quite generally adopted last spring must be maintained.

"Labor does not seem to be a serious problem just now unless the government should decide to place the nursery industry under the wages and hours law. Taxes of all kinds are going up, and they cause great concern here in Oregon, just as they do in all parts of the United States."

Oregon Optimism

The present satisfactory business pattern in the trade should continue, declares James A. Doty, Doty & Doerner, Inc., Portland, Ore., as he writes:

"As a wholesale grower, we are

BETTER LINERS OF THE BETTER KINDS GOOD TOPS AND GOOD ROOTS

	Per 100	Per 1000
<i>Clethra alnifolia rosea</i>		
2 1/4-in. pots	\$25.00	\$225.00
<i>Enkianthus campanulatus</i>		
2 1/4-in. pots	20.00	180.00
<i>Forsythia Beatrix Farrand</i>		
2 1/4-in. pots	25.00	225.00
<i>Stephanandra incisa crispa</i>		
2 1/4-in. pots	28.00	250.00
<i>Calycanthus floridus</i>		
1-yr., 15 to 18 ins.	12.50	100.00
<i>Chionanthus virginicus</i>		
2-yr., 6 to 8 ins.	20.00	180.00
<i>Clematis paniculata</i>		
1-yr., T.	25.00	225.00
<i>Hamamelis japonica</i>		
2-yr., 12 to 15 ins.	15.00	125.00
<i>Hamamelis virginiana</i>		
1-yr., 12 to 15 ins.	10.00	90.00
<i>Ilex opaca</i>		
1-yr., 8 to 10 ins.	15.00	125.00
<i>Ilex verticillata</i>		
1-yr., 6 to 8 ins.	7.50	60.00
<i>Tilia cordata</i>		
1-yr., 15 to 18 ins.	18.00	150.00
<i>Viburnum americanum</i>		
1-yr., 10 to 12 ins.	12.00	100.00
<i>Viburnum carlesii</i>		
1-yr., 12 to 15 ins.	25.00	225.00
<i>Viburnum dilatatum</i>		
1-yr., 15 to 18 ins.	12.00	100.00
<i>Viburnum opulus</i>		
1-yr., 12 to 15 ins.	10.00	90.00
<i>Viburnum setigerum</i>		
1-yr., 12 to 15 ins.	18.00	150.00

Write for full price list.

GULF STREAM NURSERY, INC.

J. L. Legendre, Pres.

Wachapreague, Va.

SHADE TREES

All First-Class Stock

	Per 10	Per 100		Per 10	Per 100
True Pin Oak			Crimson King Maple		
3 to 4 ft., br....	\$ 5.00	\$ 35.00	(Plant Pat. No. 735)		
4 to 5 ft., br....	11.00	100.00	4 to 5 ft., whips.	\$22.50	\$200.00
5 to 6 ft., br....	17.50	150.00	5 to 6 ft., whips.	27.50	250.00
6 to 8 ft., br....	25.00	225.00	6 to 8 ft., whips.	32.50	300.00
			8 to 10 ft., whips.	47.50	450.00
Norway Maple			American Sycamore		
4 to 5 ft., T....	11.00	100.00	4 to 5 ft., br....	6.00	50.00
5 to 6 ft., T....	15.00	125.00	5 to 6 ft., br....	7.50	60.00
6 to 8 ft., T....	25.00	200.00	6 to 8 ft., br....	10.00	75.00
8 to 10 ft., T....	35.00	250.00	8 to 10 ft., br....	12.50	100.00
Silver Maple			Tulip Poplar Tree		
5 to 6 ft., br....	6.00	50.00	4 to 5 ft., br....	6.00	50.00
6 to 8 ft., br....	8.00	75.00	5 to 6 ft., br....	7.50	60.00
8 to 10 ft., br....	12.00	100.00	6 to 8 ft., br....	10.00	85.00
10 to 12 ft., br....	15.00	140.00	8 to 10 ft., br....	15.00	125.00

(Write for our new descriptive catalog No. 100 of other bargains.)

BOYD NURSERY CO., INC.

McMinnville, Tenn.

Please Mention AMERICAN NURSERYMAN When Writing Advertisers.

DWARF FRUIT TREES

SELECT Double Red Delicious — Golden Delicious — Red Winesap — Red Gravenstein — Cortland — Red McIntosh — Red Melba — Red Rome Beauty and Red Jonathan — at attractive prices.

Yellow Delicious

5 to 6 ft., 2-yr., \$1.00 each.

We have the finest-grown trees on EM II — EM VII and EM IX. Make your fruit-grower customer extra money in his orchard by supplying him with dwarf trees this season.

THE C. D. MORRIS NURSERY, LTD.

Box 5

Ocean Park, B. C., Canada

50,000 PEACH TREES

Offered in 7/16, 9/16, 11/16 and 3/4-in. cal., following varieties:

Ambergem	Elberta	Krummel	Rio Oso Gem
Belle of Georgia	Erly Red Fre	Late Elberta	Shipper's Red
Blake	Golden Jubilee	Mayflower	Slaphey
Brackett	Halehaven	Ranger	South Haven
Cardinal	Heath Cling	Red Cap	Summercrest
Coronet	J. H. Hale	Red Globe	Sunhigh
Dixigem	Indian	Redhaven	Triogem
Dixired	Keystone	Redskin	

Send us your want list for special quantity prices.

WAYNESBORO NURSERIES

Waynesboro, Virginia

The Homestead Nurseries

H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

VERHALEN NURSERY

SCOTTSVILLE • 12140 HARRY MINES BLVD.
TEXAS • DALLAS, TEXAS

Your Profits Grow in Verhalen Plants

NANDINA SEEDLINGS

1 ft.	Per 100
2 ft.	\$10.00
3 ft.	15.00
	20.00

CHERRY LAUREL SEEDLINGS

3 to 4 ins.	Per 100
6 to 8 ins.	\$ 5.00
12 to 15 ins.	10.00
	15.00

Send check or money order—No C.O.D.'s
Mail or express collect—No charge for packing.

PINKSTON NURSERIES PARROTT, CA.

Rhododendron, Mountain Laurel, Leucothoe, Balsam Fir, White Pine and Hemlock, collected and nursery-grown in limited amount for spring, 1958. Seedlings, B&B, clumps and cutback stock (pans).

ANTHONY LAKE NURSERY, INC.

Pineola, N. C.

Our Trade List Shows

Shrubs — Magnolias — Dogwood —
Roses
Finished and Liners
Also Dependable Nursery Supplies

CHASE NURSERY CO., INC.

Chase, Ala.

HOLLAND BULBS

PERENNIAL SPECIALTIES

VERONA GARDENS

Th. Grovers
Wholesale Grower
Rt. 5, BATTLE CREEK, MICH.

FRUIT TREES

Dwarf and Standard

Send for Wholesale List

KELLY BROS. NURSERIES, INC.
Dansville, N. Y.

Maurice C. Ravensberg

Boskoop, Holland

Reliable exporters for general nursery stock since 1922.

Catalog on application

right in the midst of our fall shipping season at this time of the year (November). Our activity now is more of an indication of the business we booked last spring and summer. Therefore, it is difficult to give a realistic comparison to other local business trends of the moment.

"I can see little variation from the pattern of business a year ago, as far as current fall sales go. However, advanced ordering for the fall, 1957-spring, 1958, season was heavier than in the previous year, and consequently we are shipping more material this season, making our outlook good.

"We also were blessed with excellent digging weather in October, having received some rains earlier, which made the ground workable. This means that much of our B&B material is moving out in rapid order early in the season, and we hope this will ease the pressure when it comes time for digging deciduous material in December.

"I feel that (1) the advances nurserymen have made in public relations, both locally and nationally, (2) the better merchandising methods that are being used by nurseries and (3) the great need for plant materials about the country for new home areas have added impetus to the rising market of the past year or so. Any economical leveling off or slow-down in buyer trends now is not going to endanger the nursery industry. The present market cannot fully be satisfied, and the potential market of three to five years from now will be even greater."

CONNOR & AMOS CENTER

[Continued from page 10]

Completely air-conditioned, the sales building also houses the general offices of the nursery. A special area for bookkeeping operations is provided, along with a large drafting room for landscape designing. A conference room is used for discussing customers' landscape plans and for company meetings. Rest rooms have been provided for customers' convenience.

The lath house, extending along one side of the deep parking area, is faced with redwood, as the garden store is; so the two buildings have a unified appearance, emphasized by a front overhang on both structures. Having a redwood and concrete block foundation, the lath house walls and roof consist of snow fencing on pipe framework. Display beds in the 4,000 square foot structure have sides made of Transite and are filled with sawdust. All stock is prominently labeled with the name

and price of the plants shown. Provision is made for convenient overhead watering. The walks separating the beds are covered with crushed limestone and slag.

Additional beds for display and storage of plants not requiring shade adjoin the lath house. A supplementary stock of the plants on display in the lath house is kept in a storage area behind the structure, and as plants are sold from the shaded beds they are immediately replaced, so that a full display is constantly maintained. Overhead flood lights on poles and building eaves illuminate the entire area.

Company Officers

Atlee Connor, president of Connor & Amos Nursery, is the 12th child in his family. The strong horticultural background of that family is shown in the fact that he was named for W. Atlee Burpee, well-known seedsman. Mr. Connor was one of the organizers of Connor Bros. Nursery, started in 1928 and reorganized in 1942 as Connor & Amos, Inc., with Atlee Connor as president; Carl Connor, vice-president, and John Amos, secretary-treasurer.

Manager of the company's retail division is G. A. Peters, a graduate of the school of forestry, West Virginia University, Morgantown, and vice-president of the West Virginia Nurserymen's Association. A former president of this group, Mr. Peters has been named as a delegate to the 1958 convention of the American Association of Nurserymen. Besides acting as retail manager, he is also the chief specialist in the nursery's landscaping department, which offers the services of planning, planting and maintenance, as well as tree moving.

Augmenting the facilities of the Charleston nursery, Connor & Amos growing grounds at three other West Virginia locations include 200 acres at Winfield, planted to hollies, junipers and yews; 50 acres at White Sulphur Springs, and 327 acres recently acquired at Elizabeth, where evergreens, dogwood and a variety of shade trees will be grown. Specializing in the cultivation of ornamental evergreens, particularly hollies, Atlee Connor has developed a special interest in *Ilex opaca* and is now growing 35 named varieties of the species at the Winfield nursery, where they were planted five years ago.

Connor & Amos Nursery supplied many of the evergreens used for the landscaping of such prominent sites as the international headquarters of the United Nations, New York,

Slatton Nursery Co.

Box 426, McMinnville, Tenn.

Cornus florida rubra Each		Lagerstroemia (Crape Myrtle) Each	
(Red-Flowering Dogwood)		New Texas Red	
18 to 24 ins., T.	\$1.00	2 to 3 ft., T., well-br.	\$0.45
2 to 3 ft., T., 2-yr.	1.25	3 to 4 ft., T., well-br. ....	.50
3 to 4 ft., T., 2-yr.	1.75	Pfitzer Juniper	
4 to 5 ft., T., 2-yr.	2.50	15 to 18 ins.	1.20
(B&B add 50c extra per plant.)		18 to 24 ins.	1.40
Cercis canadensis		24 to 30 ins.	1.90
(American Redbud)		TRUCK OR CARLOAD LOTS—	
2 to 3 ft., T., well-br. ....	.25	Many other items.	
3 to 4 ft., T., well-br. ....	.40	Write us for price list.	
4 to 5 ft., T., well-br. ....	.55		
5 to 6 ft., T., well-br. ....	.75		

You will always find our stock right and our price right.

FOR SALE BY THE BLOCK

Buyer to do the digging. We can dig and load at 45c each.

One block of 19,000 Evergreens, assorted, about one-half	Each
Japanese Holly	\$0.65
One block of 200 Andorra Juniper, 2 to 2½ ft., sheared.....	1.50
One block of 250 Flowering Shrubs, assorted, 2 to 4 ft., clumps.....	.25
One block of 600 Dogwood, White-Flowering, 5 to 8 ft.....	1.00
One block of 140 Lombardy Poplar, 9 to 10 ft.....	1.00
One block of 230 Forsythia, 3 to 4 ft., heavy, clumps.....	.50
One block of 600 Juniper, hetzi glauca, 2 to 3 ft., very nice	1.95
One block of 5000 Juniper, hetzi glauca, 10 to 15 ins., trimmed back .....	.50
One block of 100 Taxus cuspidata, 18 to 24 ins., extra-nice.....	4.25

All blocks offered are clean, healthy and trimmed and growing in fine balling soil. Phone us 395 in advance, to avoid delay.

WHERRY'S NURSERIES

St. Marys, W. Va.

PFITZER LINERS

Pfitzer Juniper, 2-yr.,
field-grown,
\$250.00 per 1000

NICK'S NURSERY
Anchorage, Ky.

POTTED LINERS

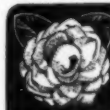
Taxus Junipers
B&B sizes to trucks only.
HUMPHREYS LANDSCAPE SERVICE
MT. STERLING, KY.

GROUND COVER

Vinca minor, made-up clumps
—8 to 15 leads, \$45.00
per 1000.

Vinca major, natural clumps
—4 to 7 leads, \$10.00 per
100.

O. H. PERRY NURSERY CO.
Box 545 McMinnville, Tenn.



SEMME'S NURSERIES

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

N. Y., and Rockefeller Center. At the Charleston garden center, attractive plantings of hollies and other evergreens give patrons an op-

portunity to view the landscaping effects that can be achieved about their own homes through the use of these plants.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

LOS ANGELES CHAPTER

Installation of officers was the main event of the meeting held October 23 at Knott's Berry Farm, Buena Park, Calif., by the Los Angeles chapter, California Association of Nurserymen. Among the 170 members and guests who attended the meeting were Eldon Paddock, president of the Orange County chapter, and Mrs. Paddock; George Marconi, president of the San Fernando chapter; Henry Graff, president of the Sunset chapter, and George Schmidt, president of the Centinela chapter. State association officers present were Willis Stribling, president; James Perry, vice-president, and Mrs. Perry, and Elmer Merz, executive secretary.

The speaker of the evening, Tyler McDonald, of Hixon & Jorgeson Advertising Agency, was introduced by Charles Crum, Rosedale's Nurseries, Inc., Monrovia, retiring president of the Los Angeles chapter. Mr. McDonald chose as his topic "How To Utilize Emotion in Selling." He said that most people buy on the basis of emotion, not of need, and that basic attitudes constitute a sort of ruler against which everything is measured. He stated that people find security in doing things for themselves; that they take great pride in being able to say "This I did." Exhibiting this basic characteristic, many people patronize the nursery business in order to gain a sense of satisfaction through making things grow.

Installation of the new officers was conducted by State President Willis Stribling, who charged them with the responsibilities of their respective offices. After accepting the office of president, Norman Springer, Bandini Fertilizer Co., Los Angeles, presented retiring President Charles Crum with a plaque commending him for his work during the past year.

Four large arrangements of roses, anthuriums and ginger decorating the speakers' table were created by Verona Weeks, Weeks Wholesale Rose Grower, Ontario, Calif., and planters on the other tables were provided by Ed Lowell, Sierra Growers, Sierra Madre. Music was furnished by the Madrigal Singers, a choral group from Chapman College.

Harold J. Botts, Secy.

PENINSULA CHAPTER

Interests at the November meeting of the Peninsula chapter of the California Association of Nurserymen ranged from pelicans to vodka, the result of having both plant and product novelties on display. The turnout for the meeting, which was held November 7 at Mariani's restaurant, Santa Clara, was gratifying; places had to be set for 30 more persons than had been expected. The sales talks given in connection with the showing of the new products and equipment were presented in barker fashion, and to top things off, most of the articles were offered as prizes during the program.

The display contest was enthusiastically supported. Certificates of merit were awarded in four classifications: Equipment of the month, product of the month, novelty plant of the month and plant with a future.

Under the direction of James Wel-den, of Germaine's, the nonplant section was of special attraction. Of the various pieces of new equipment, a pelican cart, cleverly demonstrated by Virgil Greenly, of the Parker Equipment Co., seemed to be able to do everything but eat fish. The best product talk was given by Virgil Goldman, of California Spray Chemical Corp., who showed how to use a bug bomb.

Ralph Bernstien, Schmidt's Nursery, saw that there were plant treats, also. The plant with a future was a dwarf citrus, shown by Don and Floyd Dillon, Four Winds Nursery, Mission San Jose. The plant's qualifications in its category were given as sweetly scented blossoms and sparkling fruit that could end up as an integral part of a vodka or gin drink.

Plantsmith, Palo Alto, showed a rare plant that appeared to have both carnation and daisy blooms. The hoax was uncovered when the cut flowers were removed, but the plant still won in the novelty class, being identified as aechmea.

Announcement was made of the Christmas party to be held at the Sakura Gardens, Mountain View. The theme will be Christmas in Ja-



Your Customers Need
Stribling's
GOLD DUST*
PEACHES
(Plant Pat. No. 1144)

For assured profits at the start of the peach season, introduce your growers to this yellow-fleshed Freestone. Rich, tart flavor and an excellent shipper. Ripens early June. Help meet the demand by ordering Gold Dust Peach stock now.

Whatever Your Needs... See Stribling's First!

Send for Our Wholesale Price List Today

Stribling's
NURSERIES --- One of California's Leading Nurseries
P.O. Box 793 RAndolph 2-4106
Merced, California

SIX ITEMS—

FOR lasting beauty through the years
— at these prices while they last. —

Fine stock of which we are justly proud. See our catalog for other evergreens.

	Per 100	Per 1000
Picea excelsa nidiformis (Nest Spruce)		
Wonderful dwarf, dark green, flattened globe. Rare and in heavy demand.		
6 to 9 ins., TT., B.R.	\$50.00	\$400.00
6 to 9 ins., TT., B.R., near specimens	57.00	
Picea excelsa sherwoodii (Sherwood's Multnomah Spruce)		
Wonderful dwarf, compact, irregular, flattened globe.		
6 to 9 ins., TT., B.R.	50.00	400.00
9 to 12 ins., TT., B.R.	65.00	520.00
6 to 9 ins., TT., B.R., near specimens	57.00	
9 to 12 ins., TT., B.R., near specimens	73.00	

DID YOU KNOW?
That there are over 50 named varieties of Norway Spruce, that the variations may run into the hundreds. No one knows them all.



SHERWOOD NURSERY CO.
Evergreens - PROPAGATORS AND GROWERS
WHOLESALE

Wholesale list available—trade only.
(It contains complete descriptions.)
CORBETT, ORE.

	Per 100	Per 1000
Picea pungens (Colorado Spruce) (Green)		
Very handsome and very hardy.		
*6 to 9 ins., T.	\$13.00	\$104.00
*9 to 12 ins., T.	16.00	128.00
12 to 15 ins., T., B.R.	20.00	160.00
15 to 18 ins., T., B.R.	24.00	192.00
Heavy stock. A marvelous buy, good for Christmas tree growing, for cans or growing on.		
Pinus mughus compacta (Mugho Pine)		
A dense, stout, dwarf evergreen.		
6 to 9 ins., TT., B.R., near specimens	49.00	
9 to 12 ins., TT., B.R., near specimens	65.00	
9 to 12 ins., TT., B&B	102.00	
Sell 'em now, plant 'em out or shove 'em into cans and see how fast they grow into money. The best strain.		
Thuja occidentalis (American Arborvitae)		
Always justly esteemed.		
2 to 3 ft., TT., B.R., hedge grade	73.00	
3 to 4 ft., TT., B.R., hedge grade	97.00	
Extra-fine hedge material.		
Vincea minor (Common Periwinkle)		
A complete and refreshing ground cover.		
*1-yr. plants	8.00	64.00

All shipping charges prepaid on stock marked with an asterisk (*).

pan. While the food will be mainly Japanese, Santa Claus and his gifts will be strictly international and traditional.

Roy S. Dunton, Sec'y.

CENTINELA CHAPTER

New officers were installed at the October meeting of the Centinela chapter of the California Association of Nurserymen held October 24 at the Pen & Quill restaurant, Manhattan Beach. They were president, George Schmidt, Frontier Nursery, Redondo Beach; vice-president, Reg Whitney; secretary, Bo Packard, Capel-Klang & Co., San Francisco; treasurer, Keije Yata, Yata's Nursery, Torrance, and board members, L. M. Hammond, Inglewood; Ken Terry, Redondo Beach; A. V. Ditzel; Joe D. Beeler, Beeler Bros., Inglewood; Eizo Etow, Etow's, Redondo Beach, and Robert T. Warner, Manhattan Garden Supply, Manhattan Beach. Richard Oehlman, Florence Nursery, Los Angeles, was named state director. Jim C. Perry, Perry's Plants, was the installation officer.

The retiring president, Robert Warner, introduced all present, among whom were Elmer Merz, C. A. N. executive secretary; Willis

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FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Write for our Catalog

Stribling, C. A. N. president; James Perry, C. A. N. vice-president, and Henry Graef, A-1 Nursery, Beverly Hills, president of the Sunset chapter.

Mr. Merz spoke on the beginning of the Centinela chapter, the first to be organized after his becoming executive secretary of the C. A. N.

A birthday greeting and a gift were given to Pressley Jones, of the Lumbermen's Mutual Insurance Co., after which James Perry talked

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Patented and Nonpatented.
Finest in roses since 1935.
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on the C. A. N. and obtaining new members.

Willis Stribling told the growth of the C. A. N. and its educational work, publicity efforts and insurance program and the A. A. N.

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CHOICE YAKIMA VALLEY GROWN NURSERY STOCK

Fruit Tree Seedlings

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AURORA, ORE.

"Plant America" program. He stated the next state convention will be held at Ricky's hotel, Palo Alto.

After the installation of officers at this point in the program, George Schmidt presented the retiring president, Robert Warner, with a gift gavel. The next meeting was set for November 21, at Kyoto's Sukiaki cafe, Gardena.

Bo Packard, Sec'y.

PRICKETT'S 25th YEAR

Prickett's Valley View Nursery, Santa Rosa, Calif., recently celebrated its 25th year of operation at Santa Rosa. Prizes, exhibits and demonstrations were featured during the 3-day silver anniversary observance. Garden experts were also available for consultation. Founded by H. C. Prickett, father of the present owner, at his Santa Rosa home, the nursery originally handled plants for bedding and for patio and border plantings.

In 1941 the nursery was moved to its present location at 5173 Sonoma highway. Seven years later, Mr. Prickett's son, Harold B. Prickett, and his wife, Docia, took over ownership of the firm. Their two sons, Michael, a naval reserve officer, and Jerry, a senior at Santa Rosa high school, work at the nursery during school vacations.

Growing 80 per cent of the general nursery stock it sells, Prickett's Valley View Nursery acts as a wholesale supplier to many northern California nurseries as well as operating its own retail business. The nursery staff has grown to seven full-time employees, including general manager Harold Estes, in charge of wholesale operations, and Manny Miranda, store manager.

OPEN KRAUTER BRANCH

An attendance of 7,000 people was recorded at the 3-day grand opening of a new branch of the Krauter Nursery, recently built at 2006 Kentucky street, Bakersfield, Calif. Taking part in the celebration, Mr. and Mrs. Gordon Baker Lloyd, of the "Gordon and Sassy" TV garden show, greeted friends and answered gardening questions. Pruning demonstrations and display and information booths maintained by several suppliers were other features of the event. Among the many prizes offered by the nursery were two complete landscaping jobs, awarded to owners of unplanted homes.

With its main location at 501 18th street, Bakersfield, the Krauter Nursery opened the new branch east of the city proper to serve residents of

A. MCGILL & SON FAIRVIEW, ORE.

Wholesale only

FRUIT TREE SEEDLINGS
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And Many Other Items

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Flowering, Ornamental, Shade
Trees and Shrubs. Fruit Trees,
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WHOLESALE
GENERAL NURSERY STOCK

other parts of Kern county as well as those of Bakersfield. Richard Asmon will manage the new nursery.

CALIFORNIA ROSE SHOW

The beautiful Spanish patio of the Mission Inn, Riverside, Calif., was the setting for the ninth annual rose show presented by the rose growers of southern California. The 2-day exhibit, open to the public, is sponsored jointly by the Inland Empire chapter, California Association of Nurserymen, and the Riverside chamber of commerce.

Interest was high, and spectators started forming lines at 1 p.m. Saturday, October 12, to view the growers' lavish displays, the competitive arrangements by representatives of garden groups and a demonstration and lecture in flower arranging by Mrs. Marjorie Rankin.

Participating rose growers were Armstrong Nurseries, Ontario; Peter J. Booy Rose Nursery, San Jacinto; Bruno & Pruitt Nursery, Chino; California Roses, Inc., Puente; H. A. Conklin, West Covina; Elmer Roses, San Gabriel; El Rancho Roses, Upland; Howard & Smith, Inc., Montebello; Howard Rose Co., Hemet; Jackson & Perkins Co., Pleasanton; Matlin's Nursery, Ontario; Montebello Rose Co., Montebello; E. E. Smith Nursery, Ontario; Franklin Van Horn, Ontario; Waters & Sons Nursery, Ontario, and Weeks Wholesale Rose Growers, Ontario.

Banquet

The Inland Empire chapter was host to more than 200 nurserymen and guests at the banquet held Saturday evening in the Mission Inn dining room.

James Hunt, vice-president of the chapter, presided over the meeting and introduced John Armstrong, Jr., Armstrong Nurseries, general chairman of the rose show, and Mrs. Waldo Small, Riverside, coordinating chairman. Mr. Armstrong introduced John McManus, president of the Riverside chamber of commerce, who in turn introduced Richard Boone, television star of "Have Gun, Will Travel." Mr. Boone presented the perpetual trophy awarded annually for beauty of design by the Riverside chamber of commerce to O. L. Weeks, Weeks Wholesale Rose Growers. The Fred Howard perpetual trophy awarded annually for best display of blooms went to Henry Conklin, West Covina. Howard Weeks, El Rancho Roses, and W. W. Waters, Waters & Sons Nursery, received honorable mention for their displays. Mrs. Crum, Redlands Hor-



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In Season

J. B. WHALLEY

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ticultural Society, won the sweepstakes prize of 200 rosebushes for the Redlands municipal garden with her Victorian arrangement.

Svend Poulsen, of Denmark, world-renowned rose hybridizer and originator of the floribunda class of roses, was guest of honor.

Other guests introduced were Mayor E. V. Dales of Riverside and

Mrs. Dales and the city manager, Ted B. Adsit and his wife.

Despite a rainy Sunday, the "Fashions in Roses" show held in the music room of the inn, was a complete success. Thirty varieties of roses, with a model wearing a gown to represent each variety, were displayed during the show, commentator for which was Maurie Webster,

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**Pioneering Seedling Growers on
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**Specializing in Fruit Tree Seedlings
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French Apple Seedlings,
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Wire and Redwood baskets; Redwood tubs;
Wire and fernwood totem poles;
Plant supports;
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Plastic and lead flower pin frogs;
Can cutters;
Green moss in bales and bags;
Black Magic; Plant ties and twine;
Plastic pots and trellis;
Copper, brass and plastic planters;
Wire plant markers and plastic plates;
Other nursery supplies.

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OREGON BULB FARMS
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Lilies

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ROSES OLD and NEW

Fine-quality, two-year plants
budded on Multiflora in over
250 varieties.



MT. HOOD NURSERY

Rt. 2, Box 96
GRESHAM, ORE.

general sales manager for radio station KNX and the CBS Radio Pacific network. Fifteen dress shops and 17 rose growers contributed to this lovely show. D. C.

A. A. N. REGION VI ELECTS

The California chapter of the American Association of Nurserymen held its annual breakfast meeting at 7 a. m., Wednesday, September 18, at the Miramar hotel, Santa Barbara, Calif. The meeting was called to order by President Donald Perry, San Anselmo. Fifty-nine members and guests were present for the meeting, held at an early hour to allow the members playing golf to meet the early tee-off schedule.

President Perry appointed a nominating committee of David Stump, chairman; Walter Borchers, and Martin Usrey.

L. H. McGuire, Tacoma, Wash., member of the A. A. N. board of directors from region VI, addressed the members. Mr. McGuire outlined the work of the national association and stressed the importance of a strong trade association in today's local and national life.

Peter Mordigan, San Fernando, presented the California chapter with a gavel made from the wood of an old olive tree in the San Fernando valley.

The nomination committee reported the following slate of officers, and all were elected: President, David L. Cunningham, Chino; vice-president, Willis Stribling, Merced, and secretary-treasurer, John Armstrong, Jr., Ontario.

Members of the board of governors serving an additional year are John Armstrong, Jr., and Jack Schneider, Lafayette. Elected for a 2-year term as governors are Walter C. Borchers, San Jose; Martin Usrey, Azusa, and Willis Stribling. Alternate members of the board of governors, to serve in order listed, are O. L. Weeks, John Edwards, James Wilson, Donald Perry, David Stump and David L. Cunningham.

The treasurer reported a bank balance of \$852.71.

Willis Stribling, Sec'y.

NEW ARMSTRONG NURSERY

Construction was begun recently on a new branch of Armstrong Nurseries at 1101 South Nicholas avenue, Fullerton, Calif. With a grand opening planned for early December, the new garden store will be the sixth Armstrong nursery serving the southern California area. It will feature a complete line of plant material and

garden supplies in addition to the fine roses for which the Armstrong concern, with headquarters at Ontario, Calif., is internationally known.

OREGON NOTES

Channing E. Jones, Jr., manager, merchandising division, California Spray Chemical Corp., Richmond, Calif., has accepted an invitation from President Paul Van Allen of the Oregon Association of Nurserymen to speak at the O. A. N. annual convention in January.

Sam Rich, Rich & Sons Nursery, Hillsboro, recently appeared in behalf of the Oregon Association of Nurserymen before the Senate subcommittee hearing held at Portland on the wage and hour act.

Portland members of the Oregon Association of Nurserymen held a joint meeting with the Oregon Florists' Club at the Oregon Flower Growers' Association market club-room November 26.

Chapter representatives and Robert Walker, Holgate Nursery, representing the state group, met November 4 with county representatives and others to discuss the 1958 Multnomah spring show, which will be held next April.

In the October 24 meeting of the Willamette chapter of the O. A. N., Kay Huntington, landscape architect, presented his collection of colored slides showing gardens in England, Scotland, Wales, France, Spain and Italy.

Wayne Arnold, Arnold's Clematis Nursery, Milwaukie, recently won the sweepstakes award for horticultural excellence at the Oregon state fair with a specimen clematis plant.

ANDY'S NURSERY, 11545 East Artesia boulevard, Artesia, Calif., was recently opened by Haken Andersen, who will grow most of the ornamental stock offered by the retail nursery.

PURCHASE of additional land at Phoenix, Ariz., was recently made by Suncrest Nurseries, Phoenix. The land will be used for growing specimen trees and shrubs for landscape sales.

ADDITIONAL acreage was recently acquired by Pacific Northwest Nurseries, Inc., Bellevue, Wash., in the purchase of the W. J. Knight strawberry farm, Bothell, Wash. The land, approximately 10 acres, will be used by the Bellevue firm as a growing ground. Mr. and Mrs. Knight retain one-third acre of the land and their house.

Constance A. Elmer Introducer of World Famous

"CARROUSEL"

Has Rose NEWS for '58!

"LITTLE DARLING"

(PAT. 1581)

Elmer's newest introduction, is quickly following footsteps of its illustrious predecessor.



Constance A. Elmer

At last! A happy companion of "Carousel", with all the fine qualities which a rose of a 9.1 rating must carry. It's "LITTLE DARLING".

I know of no rose with the clear brilliant coloring of this small cluster type floribunda rose.

Its perfect 2½-inch flowers are streaked with brilliant red and yellow hues—with orange to pink shading, melting into a canary yellow center. Foliage is reddish green—shining and disease free.

L. G. McLean, Forest Horticulturist, City of Fort Worth Public Parks, writes: "Little Darling" has been outstanding and of great interest to the visiting public. We are extremely proud of its behavior in terrific weather (temperatures over 100 degrees 25 consecutive days)." Dr. Plagman, Davenport, Iowa says: "Perfection of Performance—that's" "Little Darling."

MORE GOOD NEWS for '58!

Also **"LADY LUCK"** (PAT. 1579) an outstanding pink hybrid tea with delicate soft shade, is exceptionally rich in the old LaFrance exquisite perfume.

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Now making deliveries of TREE PEONIES

(Famous Yamato-Noon Strain)

Name grafted varieties in all colors.

	Each Per 10	Each Per 100	Each Per 1000
1-yr.	\$1.10	\$0.95	\$0.80
2-yr.	1.50	1.40	1.25

Yellow Varieties, \$3.50 each

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6127 Highway 99, S. Everett, Wash.

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Minimum order, \$4.00.

Instructions for the January 1 issue must be received by Friday, December 13.

Forms for January 15 issue will close Friday, December 27.

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CASH AND CARRY ONLY, NO DELIVERY.
OVER 80,000
SIZES RANGING FROM 4 ins. to 8 ft.
(Not all sizes in all varieties.)
Lath house and field-grown.
Quality, priced right.
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single rows, sheared, compact plants.

100 rate
6 to 8 ins., B&B \$0.75
8 to 10 ins., B&B90
10 to 12 ins., B&B 1.15
12 to 15 ins., B&B 1.40
15 to 18 ins., B&B 1.90
Hinodegiri, in quantity; smaller lots of
Snow, Coral Bells, sherwood, indica alba
and Glendale in larger sizes. 15 to 24 ins.,
B&B, \$2.50.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

AZALEA MOLLIS

Per 100 Per 100
6 to 8 ins. \$20.00 12 to 15 ins. \$ 75.00
8 to 10 ins. 30.00 15 to 18 ins. 105.00
10 to 12 ins. 40.00 18 to 24 ins. 130.00
Boudoir, Othello, Mary Ann, obtusa amo-
ena, Herbert, Hino-Crimson, Corsage.
6 to 8 ins. \$70.00 12 to 15 ins. \$120.00
8 to 10 ins. 83.00 15 to 18 ins. 145.00
10 to 12 ins. 95.00
Rhododendrons, from red parents, budded.
15 to 18 ins. \$300.00 18 to 24 ins. \$400.30

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DELIVERY SPRING, 1958.

POT OR FLAT-GROWN.

AMOENA CORAL BELLS
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HINO-CRIMSON HINODEGIRI
PALESTRINA POUKHANENSIS
MACRANTHA MME. PERICAT
ROSEBUD SNOW
WRITE FOR COMPLETE LIST.
\$14.00 per 100, \$125.00 per 1000.
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Thousands of beautiful Hino-Crimson and
other evergreen Azaleas. Dense, bushy, well-
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Berberis thunbergii atropurpurea.
Heavily rooted transplants.

9 to 12 ins., 20c.
12 to 18 ins., 25c.
18 to 24 ins., 30c.
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Madison, O.

RED-LEAVED BARBERRY

(Atropurpurea) 2-yr. seedlings.

Per 100 Per 1000
Lining-out \$ 4.50 \$ 40.00
9 to 12 ins., branched 9.00 80.00
12 to 18 ins., branched 12.00 110.00
18 to 24 ins., branched 16.00 140.00

RED-LEAVED BARBERRY

(Atropurpurea) 4-yr. transplants.

Per 100 Per 1000
Heavy stock, \$24.00 \$200.00
12 to 18 ins. 28.00 240.00
18 to 24 ins. 32.00 280.00
2 to 2 1/2 ft. 36.00 320.00

GREEN BARBERRY

(Thunbergii) 4-yr. transplants.

Per 100 Per 1000
Heavy stock, \$20.00 \$160.00
12 to 18 ins. 24.00 200.00
18 to 24 ins. 28.00 240.00
Our red Barberr is one of the finest
strains in the U. S. A.
DANEGGER'S HI-WAY NURSERY, INC.
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BERRY PLANTS

RED RASPBERRIES.

No. 1 No. 1
suckers transpl. Per 1000 Per 1300
Latham, Newburgh, Taylor \$55.00 \$65.00
Indian Summer, Durham,
Milton, Willamette 60.00 70.00
Chief, Sunrise, St. Regis 50.00 60.00
September, Amber Yellow 70.00 80.00

BLACK RASPBERRIES

Cumberland, Bristol, No. 1 tips, \$45.00 per 1000
PURPLE RASPBERRIES

Sodus, No. 1 tips \$ 50.00
No. 1 transplants 100.00
Stock can be shipped any time during winter
or early spring. List of other offerings
upon request.

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LATHAM RASPBERRY PLANTS.

Fall and spring delivery.

Write for prices.

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TUBEROUS BEGONIAS

Giant double flowering CAMELLIA TYPE.
8 colors. 100 1000
1 1/4 to 1 1/2-in. \$ 5.50 \$ 45.00
1 1/2 to 2-in. 8.50 75.00
2 to 2 1/2-in. 13.50 125.00

Minimum order \$5.00.
FIMBRIATA (Carnation type), double flower-
ing, 6 colors.

1 1/4 to 1 1/2-in. \$ 7.50 \$ 63.00
1 1/2 to 2-in. 11.50 100.00
2-in. and up 15.00 140.00

Minimum order \$5.00.
PICOTEE (true Camellia type), two-toned
rose and white

PENDULA (Hanging Basket type), 5 colors
balanced.

1 1/2 to 2-in. \$12.50 \$115.00
MULTIFLORA (Lilliput or miniature) (hy-
brids), copper, red, salmon and yellow.

1 1/4-in. and up \$12.50 \$115.00
Minimum order \$5.00.

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bulbs, sorts authenticity. Solid packing and
quick execution of your order. Send for
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QUICKLY AND WITH LESS EXPENSE
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HOLLAND-GROWN BULBS

DARWIN TULIPS, first size, 11 to 12 cm.,
5c each. \$4.00 per 100 on one variety:
Jubilee (blue), Wm. Pitt (red), Pride of
Haarlem (deep rose), Yellow Giant (yel-
low), Princess Elizabeth (rose), Wm. Cop-
land (lavender), Queen of Night (blue-
black), Bartigon (dark red), Clara Butt
(pink).

PARROT TULIPS, 7 1/4c each, \$6.00 per 100:
Blue Parrot (blue), Orange Favorite (or-
ange), Sunshine (bright yellow), Red
Champion (red), Black Parrot (blue-
black).

REMBRANDT TULIPS, 7 1/4c each, \$6.00 per
100: Cordell Hull (variegated white and
red).

TULIPA FOSTERIANA, 7 1/4c each, \$6.00 per
100: Red Emperor (large scarlet).

COTTAGE TULIPS, 7 1/4c each, \$6.00 per 100:
G. W. Leak (crimson and orange), Carrara
(white), Marjorie Bowen (yellow edged
scarlet).

BREEDER TULIPS, 5c each:
Dillenburg (orange-scarlet).

TRIUMPH TULIPS, 5c each:
Kansas (white).

CROCUS, blooming size, 7 to 8 cm., 4c
each, \$3.00 per 100: King of the Blues,
King of the Whites.

MUSCARI (Grape Hyacinth), 2c each.
SCHILLA (Camp, mixed), 2 1/4c each.

SNOWDROPS, 4c each.

GIANT YELLOW TRUMPET DAFFODILS,
6 1/4c each, \$6.00 per 100: Golden Harvest,
Music Hall, King Alfred, Solaris.

DUTCH IRISES, 8 to 9 cm., 5c each: Golden
Harvest, White Excelsior, Wedgwood.

HYACINTHS, bedding size, 15 to 18 cm., 18c
each: Pink Pearl (deep rose), La Victoire
(carmine-red), L'Innocence (pure white),
Bismarck (sky-blue), King of the Blues
(deep blue), City of Haarlem (golden yel-
low).

DOMESTIC BULBS

MADONNA LILY, Jumbo size, blooms Deco-
ration day, 35c each.

REGAL LILIES, 15c each.

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FINAL CLEARANCE, IMPORTED BULBS
TULIPS, MIXED, 10 to 11 cm., \$15.00 per
1000.

TULIPS, MIXED OR NAMED VARIETIES,
11 to 12 cm., \$2.50 per 100, \$20.00 per 1000.

TULIPS, MIXED OR NAMED VARIETIES,
12 cm. up, \$3.00 per 100, \$25.00 per 1000.

KING ALFRED DAFFODIL, JUMBO
MOTHER BULBS, \$8.50 per 100, \$75.00 per
1000.

DOMESTIC TULIPS, MIXED, 8 to 9 cm.,
\$1.50 per 100, \$15.00 per 1000.

FOR CLEANUP PRICES ON OTHER
ITEMS, ASK FOR COMPLETE LIST. 500
AT 1000 RATE.

GROWERS EXCHANGE, Farmington 5, Mich.

FANCY-LEAVED CALADIUMS

The finest of commercial named varieties.
Over 75 varieties absolutely free from dis-
ease, fully upgraded.

Per 100 Per 1000
No. 3, 3/4 to 1-in. \$ 7.00 \$ 62.00
No. 2, 1 to 1 1/2-in. 12.00 110.00

No. 1, 1 1/2 to 2 1/2-in. 18.00 160.00
Jumbo, 2 1/2 to 3 1/2-in. up 25.00 230.00
Mammoth, 3 1/2-in. up 37.00 350.00

Minimum order \$5.00.
LOUIS DANK

1170 Broadway New York 1, N. Y.

GLOXINIAS

The best commercial varieties.

Per 100 Per 1000
1 1/4 to 1 1/2-in. \$ 7.50 \$ 65.00
1 1/2 to 2-in. 14.00 130.00

2 to 2 1/2-in. 22.00 195.00
Mammoth, 2 1/2-in. up 30.00 275.00

Minimum order \$5.00.
LOUIS DANK

1170 Broadway New York 1, N. Y.

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ENGLISH BOXWOOD, 7-YR.-OLD

8 to 10 ins., B&B \$1.00
10 to 12 ins., B&B 1.25
12 to 14 ins., B&B 1.50
14 to 16 ins., B&B 1.75
3-yr.-old, in gal. can50

Terms: Net, F.O.B. nursery.

JOHNSON BOXWOOD NURSERY

R. 1, Highway 230 Randleman, N. C.

Dock Rd. Madison, O.

DELPHINIUMS

NEW CROP SEED

LYONDEL GIANT HYBRID DELPHINIUM
Exceptionally large flowers; wide range of beautiful colors; doubles, semi-doubles and singles.

This seed from carefully selected plants will germinate practically 100 per cent if sown either this fall or next spring. No refrigeration is necessary to keep it.

After last year's severe winter and the toughest drought in history this past summer, with practically no plant loss in our fields of thousands, this should prove that our Lyondel strain is superior and has what it takes. If you haven't grown these Lyondel Hybrids, enjoy the best by test!

MIXED COLORS ONLY

Oz. \$20.00; ½ oz., \$11.00; ¼ oz., \$6.00.

CORLIS BROS. INC. NURSERIES
Reynard St., Gloucester, Mass.

DOGWOODS

CORNUS FLORIDA RUBRA, 2-YR.	
7 to 8 ft., B&B	\$7.00
6 to 7 ft., B&B	5.50
5 to 6 ft., B&B	4.50
4 to 5 ft., br.	3.50
3 to 4 ft., br.	2.00
20 to 36 ins., br.	1.40
24 to 30 ins., br.	1.10
CORNUS FLORIDA RUBRA, 1-YR.	
24 to 30 ins., br.	\$1.10
18 to 24 ins., br.	1.00
12 to 18 ins., br.	.65
6 to 12 ins., br.	.50
CORNUS FLORIDA, WHITE-FLOWERING	
Seedlings. Per 1000	
4 to 6 ins.	\$20.00
6 to 12 ins.	30.00
12 to 18 ins.	40.00

IKE HAWKERSMITH NURSERY
Winchester, Tenn.

CORNUS FLORIDA 100 1000	
1-yr., s., 10 in. up	\$4.00 \$35.00
1-yr., s. (understock)	5.00 45.00
PETER BROUWER'S NURSERIES	
14 Lester St.	New London, Conn.

EVERGREENS, Liners

EVERGREEN LINERS	
Each	100 1000
ARMSTRONG PFITZER JUNIPER	
2-in. pots, 2-yr., 6 to 7 ins.	\$0.22 ¼
3-in. pots, 1-yr., 4 to 6 ins.	.18 ½
BURK JUNIPER	
2-in. pots, 1-yr., 5 to 10 ins.	.25 .30
HETZ GLAUCIA JUNIPER	
2-in. pots, 1-yr., 5 to 6 ins.	.23 ½ .18 ½
BLUE PFITZER JUNIPER	
2-in. pots, 1-yr., 6 to 7 ins.	.25 .20
Rooted cuttings, 7 ins.	.15 .14
BERCKMANS' BIOTA A. N.	
Field-grown, 3-yr., 6 to 8 ins.	.35 .30
TAXUS ANDERSONI	
2-in. pots, 1-yr., 6 to 7 ins.	.22 ½ .17 ½
TAXUS BROWNII	
2-in. pots, 1-yr., 4 to 6 ins.	.22 ½ .17 ½
TAXUS COLUMNARIS	
2-in. pots, 1-yr., 6 to 7 ins.	.22 ½ .17 ½
TAXUS CUSPIDATA	
2-in. pots, 1-yr., 6 to 7 ins.	.22 ½ .17 ½
TAXUS HICKSI	
2-in. pots, 1-yr., 5 to 7 ins.	.22 ½ .17 ½
TAXUS MEDIA	
2-in. pots, 1-yr., 5 to 7 ins.	.22 ½ .17 ½
TERMS: Cash with order. Free packing.	
Orders for spring held for one-fourth deposit.	
300 plants of one variety at 1000 rate.	
Not less than 50 of each variety.	
VOGE NURSERY	
New Lebanon, O.	

EVERGREEN LINERS AND CUTTINGS	
FIELD-GROWN TRANSPLANTS	
POT-GROWN STOCK (FROM 2 ½-IN. POTS)	
Grown in open lath house or outside frames.	
Arborvitae, Junipers, Taxus.	
Boxwood, Viburnum, Euonymus.	
HEAVY ROOTED CUTTINGS	
From flats, growing outside in lath house.	
Ready for delivery now.	
These extra hardy, outside-grown cuttings can be potted any time, spring, summer, fall.	
Arborvitae, Junipers, Taxus.	
Boxwood, Viburnum, Euonymus.	
WRITE FOR PRICE LIST.	
TERMS: Packing and boxing free. 3 per cent discount for cash with order.	
Our stock guaranteed 100 per cent satisfactory.	
250 plants of each variety at 1000 rate.	
MIAMI NURSERY CO.	
Corner of State Rts. 25 and 71	
Phone 8815	Tipp City, O.

EVERGREEN LINERS AND CUTTINGS	
ROOTED CUTTINGS.	
Pfitzer Juniper	10c
Pfitzer Hetz Juniper	10c
2 ½-IN., POTTED.	
Pfitzer Juniper	20c
Pfitzer Hetz Juniper	20c
Pyramidal Arborvitae	20c
TOWNSEND EVERGREEN NURSERY	
8 Walnut St. Hartford City, Ind.	

EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.
Columbus, Miss.

POTTED AND FIELD LINERS

Per 100 Per 1000

Taxus media Adams	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	\$18.00 \$170.00
2-yr., 2 ½-in. r. pots,	
8 to 12 ins.	24.00 220.00
3-yr., TT, 8 to 12 ins.	35.00 325.00
Taxus media andersoni	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
2-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
6 to 10 ins.	25.00 230.00
3-yr., TT, 8 to 12 ins.	35.00 325.00
4-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus cuspidata	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
2-yr., 2 ½-in. r. pots,	
6 to 12 ins.	24.00 220.00
3-yr., TT, 8 to 10 ins.	35.00 325.00
Taxus cuspidata, semi-up	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
6 to 12 ins.	24.00 220.00
3-yr., TT, 8 to 10 ins.	35.00 325.00
Taxus cuspidata, sdg.-grown	
1-yr., 2 ½-in. r. pots,	
3 to 6 ins.	22.50 200.00
2-yr., 2 ½-in. r. pots,	
4 to 8 ins.	27.50 250.00
3-yr., TT, 8 to 12 ins.	30.00 275.00
4-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media Hallaron	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	25.00 180.00
2-yr., TT, 8 to 12 ins.	35.00 325.00
Taxus media hatfieldi	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
2-yr., 2 ½-in. r. pots,	
4 to 6 ins.	25.00 180.00
3-yr., TT, 8 to 12 ins.	30.00 275.00
4-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media hatfieldi No. 18	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
6 to 12 ins.	25.00 230.00
3-yr., TT, 8 to 10 ins.	35.00 325.00
4-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media hatfieldi No. 24	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
3-yr., TT, 8 to 12 ins.	24.00 220.00
4-yr., TT, 8 to 12 ins.	35.00 325.00
5-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media kelseyi	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
4 to 8 ins.	25.00 200.00
3-yr., TT, 8 to 12 ins.	30.00 275.00
4-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media Moon's columnaris	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	24.00 220.00
2-yr., TT, 8 to 12 ins.	30.00 275.00
3-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media thayeri	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
2-yr., 2 ½-in. r. pots,	
6 to 12 ins.	24.00 220.00
3-yr., TT, 8 to 12 ins.	35.00 325.00
4-yr., TT, 8 to 12 ins.	50.00 450.00
Taxus media waldii	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	22.50 200.00
2-yr., 2 ½-in. r. pots,	
6 to 12 ins.	27.50 250.00
3-yr., TT, 8 to 10 ins.	40.00 350.00
Taxus media welleriana	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	50.00 450.00
Juniperus horizontalis plumosa	
(Andorra compacta)	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., TT, 6 to 12 ins.	30.00 275.00
Juniperus communis depressa aurea	
2-yr., TT, 6 to 12 ins.	30.00 275.00
Juniperus glauca hetzi	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
6 to 10 ins.	24.00 220.00
3-yr., TT, 8 to 12 ins.	30.00 275.00
Juniperus fastigiata (Irish)	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., TT, 8 to 12 ins.	30.00 275.00
3-yr., TT, 12 to 18 ins.	50.00 450.00
Juniperus chin. pfitzeriana	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	22.50 200.00
2-yr., 2 ½-in. r. pots,	
6 to 10 ins.	24.00 220.00
3-yr., TT, 8 to 12 ins.	30.00 275.00
4-yr., TT, 8 to 12 ins.	40.00 350.00
Juniperus chin. pfitzeriana glauca	
(Blue)	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	27.50 250.00
2-yr., TT, 8 to 12 ins.	35.00 325.00

(Continued in next column)

(Continued from previous column)

Juniperus communis suecica (Swedish)	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
Thuja occ. douglasii aurea	
2-yr., TT, 6 to 12 ins.	30.00 275.00
3-yr., TT, 12 to 18 ins.	37.50 350.00
Thuja occ. elegantissima	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., TT, 6 to 12 ins.	30.00 275.00
3-yr., TT, 12 to 18 ins.	37.50 350.00
Thuja occ. elwangeriana (Tom Thumb)	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	37.50 350.00
2-yr., TT, 6 to 8 ins.	27.50 250.00
3-yr., TT, 8 to 12 ins.	37.50 350.00
Thuja occ. Hetz's Winter Green	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
3-yr., TT, 8 to 12 ins.	37.50 350.00
Thuja occ. wareana (Siberian)	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
2-yr., TT, 6 to 8 ins.	30.00 275.00
3-yr., TT, 8 to 12 ins.	37.50 350.00
Thuja occ. woodwardii	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	18.00 170.00
2-yr., TT, 6 to 8 ins.	30.00 275.00
3-yr., TT, 8 to 12 ins.	40.00 350.00
Ilex crenata convexa bullata	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
3 to 6 ins.	25.00 240.00
3-yr., TT, 6 to 8 ins.	30.00 275.00
Ilex crenata hetzi	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	20.00 180.00
2-yr., 2 ½-in. r. pots,	
4 to 8 ins.	22.00 200.00
3-yr., TT, 6 to 12 ins.	35.00 320.00
4-yr., TT, 8 to 12 ins.	45.00 400.00
Ilex crenata rotundifolia	
1-yr., 2 ½-in. r. pots,	
4 to 8 ins.	18.00 170.00
2-yr., 2 ½-in. r. pots,	
4 to 8 ins.	22.00 200.00
3-yr., TT, 6 to 12 ins.	35.00 320.00
4-yr., TT, 8 to 12 ins.	45.00 400.00
Ilex crenata Stokes Pat. 887	
1-yr., 2 ½-in. r. pots,	
4 to 6 ins.	35.00 300.00
2-yr., 2 ½-in. r. pots,	
4 to 8 ins.	45.00 400.00
3-yr., TT, 6 to 8 ins.	65.00 600.00
Ilex crenata, dwarf	
2-yr., TT, 6 to 8 ins.	45.00 400.00
3-yr., TT, 8 to 12 ins.	65.00 600.00
Ilex glabra	
2-yr., 2 ½-in. r. pots,	
6 to 10 ins.	22.00 200.00
3-yr., TT, 8 to 12 ins.	40.00 350.00
TAXUS CAPITATA	
2-yr. seedlings, 5 to 6 ins.	10.00 80.00
3-yr. seedlings, 5 to 10 ins.	15.00 120.00
240,000 Taxus capitata seedlings, special price on quantity lots.	
Complete catalog on request.	
HEASLEY'S NURSERIES	
247 Freeport Road Butler, Pa.	

EVERGREEN LINERS.

Each, 100 1000

JUNIPERUS HETZI	
JUNIPERUS Pfitzeriana	
2-yr. flats	\$0.30 \$0.22
2-yr. 2 ½-in. pots	.35 .28
4-yr. XX, 6 to 9 ins. beds	.50 .40
4-yr. XX, 9 to 12 ins. beds	.65 .55
TAXUS CUSPIDATA	
2-yr. flats	.30 .22
2-yr. 2 ½-in. pots	.35 .28
ARBOVITAE, DARK GREEN	
2-yr. 2 ½-in. pots	.35 .28
4-yr. XX, 9 to 12 ins. beds	.50 .40
4-yr. XX, 12 to 15 ins. beds	.60 .50
ARBOVITAE, PYRAMIDAL	
2-yr. flats	.30 .22
ARBOVITAE, WOODWARD GLOBE	
2-yr. 2 ½-in. pots	.35 .28
4-yr. XX, 6 to 9 ins. beds	.50 .40
4-yr. XX, 9 to 12 ins. beds	.60 .50
25 at 100 rate; 250 or more at 1000 rate.	
Northern-grown and good quality. Order now for fall or spring delivery.	
BROWN DEER NURSERIES	
P. O. Box 1747 Milwaukee 1, Wis.	
QUALITY LINERS 100 1000	
Taxus cuspidata, 1-yr., T.	\$17.00 \$150.00
2-yr., T.	25.00 200.00
3-yr., 6 to 8 ins.	30.00 250.00
8 to 10 ins. heavy	35.00 300.00
10 to 12 ins. heavy	40.00 350.00
Taxus hicksii, 2-yr., T.	25.00 200.00
3-yr., 8 to 10 ins.	35.00 300.00
10 to 12 ins. heavy	40.00 350.00
Taxus capitata, 1-yr., T.	20.00 175.00
Andorra Juniper, 1-yr., T.	8 to 10 ins. 18.00 150.00
Cash with order earns free packing.	
LINCOLN NURSERIES	
Grand Rapids 4, Mich.	
JUNIPERUS GLAUCIA HETZI	
2-yr., bedded, 13 ins. tall.	\$18.00 per 100, \$150.00 per 1000.
SINGER GARDENS	
Stamping Ground, Ky.	

EVERGREENS, Liners—Continued

BARE ROOTS		Each	100	1000
Berkmans' Biota aurea nana.				
4 to 6 ins.	.....	8c	7 1/2c	
6 to 8 ins.	.....	12c	11c	
8 to 10 ins.	.....	16c	15c	
10 to 12 ins.	tr.	22c	20c	
Biota excelsa, 8 to 10 ins.	.....	10c	9c	
Ilex rotundifolia, rooted cuttings	.....	5c	4c	
Juniperus hetzi, 10 to 12 ins.	tr.	19c	18c	
Juniperus stricta, 6 to 8 ins.	.....	11c	10c	
10 to 12 ins.	tr.	22c	20c	
Crape Myrtle, watermelon-red,				
6 to 8 ins.	.....	8c	7c	
THE BUSH RANCH				
140 Woodland Drive	Thomasville, Ga.			
James W. Lawson, Mgr.	Phone Canal 6-4245			
PINE, SPRUCE SEEDLINGS				
AND LINERS		100	1000	
Scotch Pine, 3-yr., 8 to 14 ins.	.....	\$ 6.00	\$35.00	
Colo. Blue Spruce, 4-yr.,				
6 to 12 ins.	.....	8.00	55.00	
Norway Spruce, 3-yr., 6 to 12 ins.	.....	6.00	40.00	
Juniperus glauca hetzi, 2-yr.,				
6 to 12 ins.	.....	25.00	.....
Spreading Jap. Yew, 3-yr.,				
4 to 8 ins.	.....	30.00	.....
Write for complete list.				
PAINT CREEK NURSERIES				
R. D. 1	Shipperville, Pa.			

EVERGREENS, B&B

ILEX CRENATA (JAPANESE HOLLY)		Each	100
1 1/2 to 2 ft., B&B	.....	\$3.25	
2 to 2 1/2 ft., B&B	.....	4.25	
2 1/2 to 3 ft., B&B	.....	5.25	
3 to 3 1/2 ft., B&B	.....	6.50	
4 to 5 ft., B&B	.....	9.00	
ILEX CRENATA (SPREADING TYPE)			
15 to 18-in. spread, B&B	.....	3.00	
18 to 24-in. spread, B&B	.....	3.90	
2 to 2 1/2 ft. spread, B&B	.....	5.00	
BULK'S NURSERIES			
619 N. Montauk Highway	Babylon, N. Y.		
ANDORRA JUNIPER			
We have a block of Juniperus horizontalis			
plumosa (Andorra) which we must clear in			
1958, as we need the room.			
To someone who will dig, we offer:			
Lot No. 1, \$1000.00.			
450 specimens, mostly 24 to 42 ins.			
Lot No. 2, \$250.00.			
500, mostly 12 to 15 ins.			
GARDENVIEW NURSERY			
Route 42	Strongsville, O.		
JUNIPERS, PFITZER AND HETZ			
Field-grown and sheared.			
12 to 15 ins. 50c; 15 to 18 ins. 75c; 18			
to 24 ins. \$1.00. You dig them. Row-run,			
\$60.00 per 100.			
A. J. BUTTERFIELD, FARMINGTON, MO.			
Turn your Surplus Stock			
into cash,			
with a Classified Ad in			
the American Nurseryman.			

EVERGREENS, Miscellaneous

FALL 1957—SPRING 1958		Per 25	Per 100
2-YR. PLANT BAND LINERS, 2 1/2-IN.			
Taxus cuspidata, 8 to 10 ins.	.....	\$0.37	\$0.35
Taxus hicksii, 8 to 10 ins.	.....	.37	.35
Taxus canadensis, 8 to 10 ins.	.....	.42	.40
Arbor., woodwardii, 6 to 8 ins.	.....	.32	.30
Sold in multiples of 25 per variety.			
250 of any one variety or assorted varieties			
at 250 rate. Free boxing.			
B&B FINISHED STOCK			
Taxus cuspidata (heavy), 15 to 18 ins.	Each		
Taxus canadensis (heavy), 18 to 24 ins.	.....	\$5.50	
Taxus densiformis, 12 to 15 ins.	.....	6.25	
Arbor., ex. nigra, 24 to 30 ins.	.....	4.50	
Arbor., ex. nigra, 30 to 36 ins.	.....	3.00	
Euonymus yedoensis, br., 3 to 4 ft.	.....	.90	
B&B stock to pick up by truck.			
DRAKE'S NURSERIES			
G-4342 Branch Rd.	Flint 6, Mich.		

JUNIPERS

One lot of nice, well rooted cuttings,
6 to 10 ins., 10c each.
650 Pfitzer, 150 Hetz, ready for 3 or 4-in. pots.
Also B&B Pfitzer and Hetz, 18 to 24 ins.,
\$1.50.

ROY GRAMSE NURSERY
Route 7 Paducah, Ky.

EVERGREENS

Large assortment of varieties and sizes.
Ask for our wholesale price list.
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Waynesboro, Va.

GARDEN ROUTES

CANADA RED RHUBARB
(Chippman's strain).
MacDonald Red and Victoria.
Good No. 1 divisions.
Fall or spring delivery.
Wholesale only. Write
CHAPMAN'S BERRY FARM
East Leroy, Mich.

GRAPEVINES

CONCORD GRAPEVINES

Strong 2-yr.-old, No. 1 vines.
\$6.00 per 100.
\$50.00 per 1000.

MORI'S NURSERY

R. 2 Niagara-on-the-Lake, Ontario, Canada

GRAPE CUTTINGS

Concord and Fredonia, cut by experienced
workmen, from clean, healthy vineyard;
largest in Oklahoma. Tied with wire, 100 to
bunch, \$6.00 per 1000. F.O.B. here, by ex-
press or motor freight, while supply lasts.
IDEAL FRUIT FARM AND NURSERY
Stillwell, Okla.

GROUND COVERS

Hardy Myrtle (Vinca minor), plants with
20 leads or more and good roots, \$5.00 per
100, \$45.00 per 1000. Pachysandra, sand-
rooted cuttings, \$40.00 per 1000. English Ivy,
sand-rooted cuttings, \$40.00 per 1000. Cash.
Samuel I. Minder, 305 Euclid Ave., Lan-
caster, Pa.

HARDWOOD CUTTINGS

HARDWOOD CUTTINGS

Unrooted, from our own blocks and plant-
ings. Hand-trimmed, ready for bed planting.
Guaranteed true to name.

	Per 1000
Andorra Juniper	\$15.00
Hetz Blue Juniper	15.00
In lots of 5000, \$12.50.	
Burk Juniper	15.00
Canaert Juniper	15.00
Hillspire Juniper	15.00
Keteeler Juniper	15.00
Irish Juniper, fastigiata	15.00
In lots of 5000, \$12.50.	
Pfitzer Juniper	15.00
Savin Juniper	15.00
Spiny Greek Juniper	15.00
Dark green Arborvitae, nigra	15.00
Pyramidal Arborvitae	15.00
Swedish Juniper	15.00
Siberian Arborvitae, warana	15.00
Upright Yew, Taxus capitata, tips	15.00
Spreading Yew, Taxus cuspidata	15.00
Delivery at any time. 500 at 1000 rate.	
Packed free. Cash with order, please.	
BOB NEPRASH NURSERIES	
Trade "SHANGRI-LA" Mark	
Rt. 2 Cedar Rapids, Ia.	

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sell it through the
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HARDY PLANTS

DICENTRA SPECTABILIS

	10	100	1000
2 to 3 eyes	\$2.50	\$17.50	\$153.00
3 to 4 eyes	3.50	25.00	225.00
5 to 8 eyes	4.50	35.00	325.00
DICENTRA EXIMIA			
2 to 3 eyes	2.00	12.50	130.00
3 to 5 eyes	2.50	17.50	150.00
5 to 8 eyes	3.50	25.00	200.00
GROWERS EXCHANGE, Farmington 8, Mich.			

IBERIS
Sempervirens, fine 2-yr. plants, \$2.20 per
10, \$20.00 per 100, \$150.00 per 1000.
Snowflake, 2-yr. plant, \$2.50 per 10, \$22.00
per 100, \$210.00 per 1000.
PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

ASTILBES (HERBACEOUS SPIRAEAS)

Excellent pot plant item.
FANOL, deep red; BONN, deep rose;
DEUTSCHLAND, pure white.
\$4.00 per 10, \$30.00 per 100.
GROWERS EXCHANGE, Farmington 8, Mich.

America's best source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

GYPSOPHILAS
BRISTOL FAIRY, fully double snow-white
FLAMINGO, fully double pink
\$5.50 per 10, \$40.00 per 100.
GROWERS EXCHANGE, Farmington 8, Mich.

LIRIOPE (OPHIPOGONS)
The hardy Evergreen for walks and bor-
ders. Strong divisions, \$20.00 per 1000.
MOUNTVILLE NURSERIES, Mountville, Pa.

Iberis sempervirens, hardy white Candy-
tuft. Heavy field-grown plants, \$12.50 per
100, \$115.00 per 1000. 250 at 1000 rate.
Fowler's Nursery, Raleigh, N. C.

SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

WELLERS BETTER PERENNIALS
WELLER NURSERIES CO., Holland, Mich.
Write for trade list.

HEDGES

Chinese Elm hedging (Ulmus pumila),
transplanted, heavy caliber, bushy plants.
Row run, 18 to 30 ins. tall, \$12.00 per 100.
Free packing, cash with order.
Mellinger's, Inc., North Lima, O.

HELLEBORUS

HELLEBORUS NIGER

3-yr. transplants, blooming size.
Suitable to pot up for sales on roadside
stands and garden centers.
\$50.00 per 100, \$450.00 per 1000.
C. HOOGENDOORN
Turner Rd. Newport, R. I.

HELLEBORUS NIGER

\$5.00 per 10, \$50.00 per 100.
GROWERS EXCHANGE, Farmington 8, Mich.

HOLLY

ILEX

Strong, healthy 2 1/2-in., pot-grown, in
sterilized soil. Well established. Satisfaction
guaranteed.

Ilex cornuta burfordii	Per 100
Ilex cornuta femina (3-in. pots)	\$12.00
Ilex crenata, helleri	20.00
Ilex crenata rotundifolia	15.00
Ilex opaca East Palatka	20.00
Ilex opaca femina	20.00
Ilex opaca fosteri	20.00
Ilex vomitoria nana (dwarf Yaupon)	20.00

COTTAGE HILL NURSERY
4600 Japonica Lane Mobile, Ala.

ILEX OPACA

Named varieties, four years in field.
2 to 3 ft., B&B \$ 5.00
3 to 4 ft., B&B 7.50
4 to 5 ft., B&B 10.00
SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone 489-3

ILEX OPACA

SUPERIOR NAMED VARIETIES
WHOLESALE SUPPLIERS
OF LINING-OUT STOCK.
Write for price list.
HOLLY HAVEN, INC.
Box 75 New Lisbon, N. J.

ILEX GLABRA (INK BERRY)
2-yr., well branched, in pots,
30c each, \$25.00 per 100.
CHAMPION NURSERIES
408 Main St. Perry, O.

HONEYSUCKLES

Lonicera japonica halliana, extra-heavy
No. 1, 3 and 4-yr., 18 to 24-in. field plants,
3, 4 to 6 leads, \$40.00 per 1000; lighter grade,
\$30.00 per 1000; sample 100, \$4.00. Experi-
enced labor for grading and packing quan-
tity orders. Immediate shipment. No order
too large. Phone: Or 2-4612.
ROBINSON NURSERY CO., Greenville, Ga.

Lonicera japonica halliana (Hall's Honeysuck-
le), 6 to 12-in. liners, \$15.00 per 1000.
Greenville Nurseries, Mrs. R. L. Robinson,
Prop., Greenville, Ga.

HALL'S HONEYSUCKLE
Good plants, well packed, \$20.00 per 1000.
MOUNTVILLE NURSERIES, Mountville, Pa.

IVIES

IVIES, ROOTED CUTTINGS

Ready now and later.
Per 100 Per 1000
Hedera baltica, true stock ... \$6.50 \$60.00
Hedera helix, true English ... 6.00 55.00
2 1/2-in. pots of either above, \$15.00 per 100.
Free packing. Cash with order.
BABCOCK GARDENS
Route 3 Jamestown, N. Y.

BAL TIC IVY

Hardest Ivy. Fine for wall or ground
cover. True stock. Well rooted plants, 18 to
12-in. vines. Per 100 Per 1000
2-in. pots \$12.50 \$115.00
2 1/2-in. pots, 1-yr. 20.00 190.00
STRATFORD GARDENS
Russell Breece, Mtd. Rt. 9 Delaware, O.

IVIES

English, small-leaved, \$45.00 per 1000.
These are good rooted plants.
We have no greenhouse.
MOUNTVILLE NURSERIES, Mountville, Pa.
Small Ads Do Great Things in the
American Nurseryman Classified Section.

LAWN GRASS AND SEED

Certified Meyer (Z-52) and Emerald Zoysia.
To be sure of highest quality Zoysia in these
strains insist on certification by State Crop
Improvement Association. Also Zoysia Ma-
trella. Wholesale prices. Any quantity.
Merry Grass Nursery, Dept. C, Box 217,
Spring Hill Sta., Mobile, Ala. Phone GARD-
6-1775.

XUM

LINING-OUT STOCK—Continued

EVERGREENS	
Andorra Juniper, 6 to 8 ins.	..\$0.05
bare-root	..06
Blue Hets Juniper, 6 to 8 ins.	..06
bare-root	..06
Burk Juniper (upright), 6 to 10 ins.	..14
bare-root	..08
Pfitzer Juniper, 6 to 8 ins. bare-root	..06
Savin Juniper, 6 to 7 ins. bare-root	..06
Von Ehron Juniper, 6 to 10 ins.	..06
bare-root	..06
Moffet Blue Juniper (creeper).	..10
bare-root, 6 to 10 ins.	..10
Moffet Green Juniper (creeper).	..10
bare-root, 6 to 10 ins.	..10
Hill's Dk. Green Am. Arborvitae	..12
(pyramidal), 6 to 8 ins.	..20
Spreading Jap. Yew, 6 to 8 in. bands.	..20
DECIDUOUS. Bare-root	..04
Blue Spiraea (Caryopteris).	..04
8 to 12 ins.	..04
Blue-leaved Arctic Willow,	..06
10 to 12 ins.	..06
Golden Ninebark (Physocarpus).	..04
4 to 6 ins.	..04
Forsythia Arnold's Giant, 4 to 6 ins.	..08
Forsythia Lynwood Gold, 6 to 10 ins.	..05
Forsythia Spring Glory, 6 to 10 ins.	..04
Forsythia nana compacta, 4 to 6 ins.	..05
Forsythia Beatrix Ferrand, 6 to 8 ins.	..10
Honeysuckle, Cardinal, 5 to 8 ins.	..05
zabell, 5 to 8 ins.	..05
Clavey's Dwarf, 4 to 6 ins.	..05
HONEYSUCKLE VINE HECKROTTI,	..05
4 to 6 ins.	..05
Philadelphus Bouquet Blanc,	..05
4 to 6 ins.	..05
Privet, Chinese, Wayside Gardens	..04
strain; 6 to 12 ins.	..04
Regela, 6 to 10 ins.	..04
Lodense, 4 to 6 ins.	..05
Spiraea froebelii, 4 to 5 ins.	..04
macrothrysa, everblooming, pink,	..05
4 to 6 ins.	..05
Weigela Eva Rathke, 4 to 6 ins.	..06
Weigela vanickii, 4 to 6 ins.	..06
BROADLEAFS	
Euonymus, carlesii, 6 to 8 ins.	..04
patens Flagpole, small-leaved,	..04
6 to 8 ins.	..04
patens Owen, small-leaved,	..04
6 to 8 ins.	..04
patens large-leaved, 6 to 10 ins.	..04
patens Newport, medium-leaved,	..04
6 to 8 ins.	..04
patens Rosehill, medium-leaved,	..04
6 to 8 ins.	..04
Euonymus, coloratus, 8 to 10 ins.	..03½
radicans (upright Sarcoele).	..07
Purple-leaved (Texas) Honeysuckle	..05
vine, 5 to 6 ins.	..05
Variegated-leaved Honeysuckle vine	..06
(Gold Net), 5 to 6 ins.	..05
Pyracantha Islandi, 5 to 6 ins.	..05
Pyracantha Kusan, 5 to 6 ins.	..08
Pyracantha pauciflora, 4 to 6 ins.	..08
Less than 300 total order, add 2c per plant.	
McINCH GREENHOUSES	
St. Joseph, Mo.	

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2½-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100
Ilex cornuta burfordi, 8 to 10 ins.	..\$12.00
Ilex cornuta burfordi, 4 to 6 ins.	..10.00
Ilex cornuta femina, 8 to 10 ins.	..12.00
Ilex opaca femina (American Holly),	
8 to 10 ins.	..25.00
Ilex opaca femina, 4 to 6 ins.	..20.00
Ilex opaca howardi, 5 to 10 ins.	..16.00
Ilex opaca East Palatka, 8 to 10 ins.	..15.00
Ilex crenata rotundifolia, 8 to 10 ins.	..12.00
Ilex crenata rotundifolia, 4 to 6 ins.	..10.00
Ilex crenata microphylla, 6 to 8 ins.	..12.00
Ilex aquifolium fem. (English Holly),	
4 to 6 ins.	..15.00
Berberis Julianae, 6 to 8 ins.	..15.00
Acubia japonica, 4 to 6 ins.	..15.00
Buxus harlandi, 4 to 6 ins.	..10.00
Cherry Laurel, 6 to 8 ins.	..10.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike
Germantown, Tenn.

LINING-OUT STOCK

Biota, Ilex, Juniper, Taxus, Thuja, Retinospora and Broad-leaved, rooted cuttings and transplants. List upon request.

MIST-O-GATION, INC., Middletown, Del.

LINERS OF THE BETTER KINDS

Write for price list.
GULF STREAM NURSERY, INC.
Wachapreague, Va.

LINING-OUT STOCK

Per 100 Per 1000

Acer ginnala (Amur Maple),	1-yr. seedlings, 6 to 9 ins.	\$ 7.00	\$60.00
Acer palmatum atropurpureum,	1-yr. grafts, beds, 6 to 9 ins.	90.00	850.00
Acer palmatum atropurpureum,	3-yr., TT, fr., 12 to 15 ins.	150.00	1400.00
Acer platanoides	1-yr. seedlings, 9 to 12 ins.	7.00	60.00
Acer platanoides, 2-yr.,	T, fr., 18 to 24 ins.	15.00	140.00
A. pseudoplatanus, 2-yr., T, fr.	15.00	140.00	
Althaea, 1-yr. seedlings,	18 to 24 ins.	5.50	45.00
Azalea hinodensis, 2-yr., T,	beds, 4 to 6 ins.	50.00	450.00
Azalea hinodensis, 3-yr., T,	beds, 6 to 8 ins.	65.00	600.00
Berberis thunbergii, 2-yr.,	T, fr., 9 to 12 ins. heavy	8.50	75.00
Berberis thun. atropurpurea,	2-yr., T, fr., 9 to 12 ins. hyv.	9.50	85.00
Callicarpa japonica, 1-yr.,	seedlings, 9 to 12 ins.	6.00	50.00
Cercidiphyllum japonicum, 1-yr.,	seedlings, 12 to 15 ins.	7.00	60.00
Cornus florida, 1-yr. seedlings,	grafting size	6.00	50.00
Cydonia japonica, 2-yr.,	T, fr., 12 to 15 ins.	10.00	95.00
Euonymus vegetus, 2-yr., T, fr.	35.00	300.00	
Fagus sylvatica, 1-yr. seed-	lings, 4 to 6 ins.	9.50	85.00
Ginkgo biloba, 1-yr. seedlings,	4 to 6 ins.	7.50	70.00
Hydrangea E.G.	T, fr., 12 to 15 ins.	30.00	250.00
Koeleria paniculata,	1-yr. seedlings, 12 to 15 ins.	7.50	70.00
Pieris japonica, 2-yr., T, beds.	30.00	250.00	
Quercus palustris, 1-yr. seed-	lings, 6 to 9 ins.	7.50	70.00
Rosa rugosa, 1-yr. seedlings,	4 to 6 ins.	5.50	45.00
Sorbus aucuparia, 1-yr.	seedlings, 9 to 12 ins.	7.00	60.00
Sorbus aucuparia, 2-yr.,	T, fr., 18 to 24 ins.	20.00	180.00
Taxus cuspidata nana (brevi-	folia), 3-yr., T, beds.	45.00	400.00
Taxus haifieldi, 3-yr., T, beds.	45.00	400.00	
Taxus thayeri, 3-yr., T, beds.	45.00	400.00	
Thuja woodwardii, 2-yr., TT,	fr., 6 to 9 ins.	40.00	350.00
Tsuga canadensis, 3-yr., T,	beds	25.00	200.00
Viburnum dilatatum, 1-yr.,	seedlings, 9 to 12 ins.	7.00	60.00
Zelkova serrata (sub. for	American Elm), 2-yr., T, fr.,	12 to 25 ins.	20.00
12 to 25 ins. (Not subject to Dutch Elm disease.)		180.00	
BOULEVARD NURSERIES			
Newport, R. I.			
Phone VI 6-1263.			

LINING-OUT STOCK

Grown in our nursery in rich, black soil and under irrigation. All well and fibrous rooted.

SHRUBS		Each, 100	1000
Forsythia ovata, 12 to 18 ins.	..\$0.06	..	..
Forsythia spectabilis,	12 to 15 ins.	..06	..
Ligustrum amurense,	12 to 15 ins.	..05½	..\$0.05
Ligustrum regelianum (from	cuttings), 12 to 15 ins.	..07½	..07
Lonicera ruprechtiana,	12 to 15 ins.	..06½	..06
Persian Lilac, 12 to 15 ins.	1.00	..90	
Philadelphus lemoinei, heavy	2-yr., 15 to 18 ins.	1.10	1.00
Physocarpus, 15 to 18 ins.	..06	..	..
Physocarpus aureus,	15 to 18 ins.	..06	..
Physocarpus nanus, 12 to 15.	..06	..05½	
Spiraea froebelii, 6 to 8 ins.	..06	..	..
Viburnum lantana,	2-yr., 12 to 18 ins.	1.40	1.25
Arctic Willow	15 to 18 ins.	..06½	..
Ligustrum ibolium,	15 to 18 ins.	..05½	..05
TREES		1.00	.90
Ulmus americana, 6 to 8 ft.	1.00	..90	
Ulmus americana, 8 to 10 ft.	1.30	1.20	
Ulmus columnaris, 8 to 10 ft.	1.60	1.40	
Ulmus columnaris, 14-in.	2.00	1.80	
Ulmus molini, 6 to 8 ft.	1.25	1.10	
Ulmus molini, 8 to 10 ft.	1.50	1.35	
Ulmus molini, 14-in.	2.00	1.80	
Ulmus urali, 8 to 10 ft.	1.40	1.25	
Ulmus urali, 14-in.	1.80	1.65	
EUGENE A. de ST. AUBIN & BRO. INC.			
Addison, Ill.			

LINING-OUT STOCK
HEAVY LINERS FROM FIELD BEDS

	Per 100
Taxus cuspidata, 4-yr., 12 to 15 ins.	..\$65.00
Taxus cuspidata, 3-yr., 10 to 12 ins.	..55.00
Taxus capitata, 3-yr., 10 to 12 ins.	..55.00
Taxus hicksii, 3-yr., 10 to 12 ins.	..50.00
Taxus hicksii, 2-yr., 8 to 10 ins.	..40.00
Taxus ovata, 3-yr., 10 to 12 ins.	..50.00
Euonymus vegetus, 3-yr., branched	..50.00
Euonymus vegetus, 2-yr., branched	..35.00
Euonymus patens, 3-yr., 12 to 15 ins.	..40.00
Euonymus patens, 2-yr., 10 to 12 ins.	..30.00
Ribes alpinum, 3-yr., 12 to 15 ins.	..30.00
Ribes alpinum, 2-yr., 10 to 12 ins.	..20.00
Rhodotypos kerrioides, 2-yr., 12 to 15	..20.00
ins.	..20.00

6204 St. Joe Rd. Fort Wayne, Ind.

LINING-OUT STOCK

Following is a partial list of the many thousands of our high-quality liners. We have the finest liners that can be produced and invite your trial order.

	Per 100
Eriobotrya japonica (Loquat)	
6 to 8 ins.	..\$10.00
8 to 12 ins.	..15.00
Feijoa sellowiana (Pineapple Guava)	..15.00
8 to 12 ins.	..15.00
Gardenia August Beauty	..15.00
Gardenia fortunei	..15.00
Gardenia Mystery	..15.00
8 to 12 ins.	..12.50
12 to 18 ins.	..15.00
Ilex crenata rotundifolia	..17.50
6 to 8 ins.	..17.50
8 to 12 ins.	..20.00
Ilex glabra	..10.00
6 to 8 ins.	..12.50
8 to 12 ins.	..15.00
Ilex opaca fotheri	..15.00
6 to 8 ins.	..17.50
8 to 12 ins.	..17.50
Juniperus chinensis pfitzeriana	..15.00
6 to 8 ins.	..20.00
8 to 12 ins.	..20.00
Juniperus densa plumosa (Andorra)	..15.00
6 to 8 ins.	..15.00
8 to 12 ins.	..17.50
Lonicera yunnanensis (low Honeysuckle)	..15.00
6 to 8 ins.	..15.00
8 to 12 ins.	..17.50
Nandina	..15.00
6 to 8 ins.	..15.00
8 to 12 ins.	..17.50
12 to 18 ins.	..20.00
Osmanthus fragrans (Sweet Olive)	..15.00
6 to 8 ins.	..17.50
8 to 12 ins.	..17.50
Photinia glabra	..15.00
8 to 12 ins.	..15.00
12 to 18 ins.	..17.50
Pittosporum tobira	..12.50
6 to 8 ins.	..12.50
8 to 12 ins.	..15.00
Retinospora ericoides	..15.00
12 to 18 ins.	..15.00
Magnolia grandiflora	..15.00
6 to 8 ins., transplanted	..15.00
8 to 12 ins., transplanted	..20.00
Magnolia soulangeana	..40.00
12 to 18 ins., 2-yr.	..40.00
18 to 24 ins., 2-yr.	..45.00
Magnolia stellata, 2-yr., 12 ins. and up.	..45.00
We grow the finest container-grown stock in the Southeast and have a much better selection of stock to select from. Write for our wholesale prices of all items.	
BLACKWELL NURSERIES	
Semmes, Ala.	
WHOLESALE ONLY	

LINING-OUT STOCK

	Each, 100	1000
Acer palmatum atropurpureum		
(Red Japanese Maple), 12 to		
18 ins., strong 2-yr. grafts	..\$1.75	..\$15.00
Cornus florida rubra (red-flow-		
ering Dogwood), 1-yr. strong		
grafts, 18 to 24 ins.	..75	..70
Cotoneaster branchata, 2-yr.		
transplants, branchata, 12 to		
18 ins.	..30	..25
Euonymus alatus compactus,		
3-yr. transplants, 12 to 18		
ins., branched, mail order	..45	..40
Exochorda wibsonii (Pear Bush),		
2-yr. grafts, 18 to 24 ins.	..75	..60
Forsythia Lynwood Gold, 1-yr.		
transplants, softwood cut-		
tings, 18 to 24 ins., well-	..18	..15
branched, mail order size		
Forsythia Spring Glory, 1-yr.		
transplants, softwood cut-		
tings, 18 to 24 ins., well-	..18	..15
branched, mail order size		
Juniperus hetzi, 2-yr. trans-		
plants	..40	..35
Pachistima canbyi, 2-yr. trans-		
plants	..50	..45
Prunus tomentosa (Nanking		
Cherry), strong 1-yr. seed-		
lings	..10	..07½
Pseudotsuga taxifolia glauca		
(Blue Douglas Fir), 4-yr.		
transplants	..40	..35
Taxus capitata, strong 2-yr.		
selected seedlings, 4 to 6 ins.	..15	..12½
Taxus capitata, 4-yr. trans-		
plants	..45	..40
Taxus intermediata, 4-yr. TT,		
field rows (slow spreader)	..75	..60
Taxus thayeri, 2-yr. transplants	..45	..40
Viburnum carlesii, 2-yr. seed-		
lings, 4 to 6 ins.	..15	..12½
Viburnum carlesii, 2-yr. seed-		
lings, 6 to 8 ins.	..20	..17½
Viburnum carlesii, 2-yr. seed-		
lings, 8 to 12 ins.	..30	..25
Viburnum carlesii, 3-yr. trans-		
plants, 15 to 18 ins.	..75	..60
Viburnum dilatatum, 1-yr.		
seedlings	..10	..09
Viburnum tomentosum (true),		
1-yr. transplants, softwood		
cuttings	..25	..20
Viburnum wrightii, 2-yr. grafts,		
field rows, 10 to 18 ins.	..75	..60
C. HOOGENDOORN NURSERIES		
Newport, R. I.		

2 1/2 AND 3 1/2-IN. POT-GROWN LINERS

	Per 100
Arbovitae aurea nana.....	\$20.00
Allamanda hendersoni.....	20.00
Allamanda nerifolia.....	20.00
Allamanda violacea.....	30.00
Allamandas, double yellow.....	20.00
Buxus harlandi.....	18.00
Calliandra, red.....	20.00
Callistemon citrinus.....	20.00
Callistemon lanceolatus.....	20.00
Callistemon rigidus.....	20.00
Callistemon viminalis.....	20.00
Carissa Boxwood Beauty.....	35.00
Chalcas.....	20.00
Confederate-Jasmine.....	20.00
Cuphea hyssopifolia, red.....	18.00
Cupheas, white.....	20.00
Picus nitida.....	18.00
Picus philippinensis.....	18.00
Picus rubiginosa.....	20.00
Ixora chinensis.....	30.00
Ixora coccinea.....	20.00
Ixora roseum.....	30.00
Ixora Super King.....	40.00
Jasmine Dainty.....	20.00
Jasminum ilicifolium.....	18.00
Jasminum pumila.....	18.00
Jasminum robustum.....	20.00
Jasminum simplicifolium.....	20.00
Juniperus hetzi.....	20.00
Lantana sellowiana.....	17.50
Malpighias, prostrate.....	20.00
Oleanders, double red.....	20.00
Palm (Livistona).....	20.00
Pentas Celestial Rose.....	17.50
Pentas Coral Pink.....	17.50
Pentas Orchid.....	17.50
Pentas Vivid.....	17.50
Platanus tobiara.....	18.00
Pittosporum tobiara.....	20.00
Podocarpus maki.....	20.00
Sea Grape.....	20.00
Serissa foetida.....	18.00
Thunbergia erecta.....	18.00
Thunbergia tobiara.....	20.00
Viburnum odoratissimum.....	18.00
Viburnum suspensum.....	20.00
Minimum order 100 plants. Not less than 25 of any one variety. Pack 50 per carton.	

GOUCHARD NURSERIES, INC.

2 mi. North of Ft. Meade on U. S. hwy. 17

Pembroke, Fla.

CERCIDIPHYLLUM MAGNIFICUM

(Katsura, false Redbud.)

Rare, hardy, pest-free, rapid, easily grown lovely tree.

SIZE	50	100	500
15 to 18 ins.....	\$15.00	\$28.00	....
12 to 15 ins.....	11.00	22.00	....
9 to 12 ins.....	8.00	14.00	50.00
6 to 9 ins.....	7.00	12.00	40.00

Betula schmidtii, shiny, leathery leaves, a medium growing Birch with interesting form and white bark; Betula platyphylla, a very large-leaved Birch with varied bark, \$10.00 per 100, \$7.50 per 50.

Viburnum lantana (English Wayfaring Tree), wooly leaves, red to black berries. Large, \$10.00; medium, \$7.50; light, \$5.00 per 100.

Good domestic Bartlett seedling, branched and straight. No. 1, \$30.00; No. 2, \$25.00; No. 3, \$18.00 per 1000.

No orders under \$10.00. Cash with order, please.

GARDNER NURSERY

Rt. 7, Box 266A Yakima, Wash.

FIELD-GROWN LINERS

	Per 100
All twice transplanted.....	NX \$50.00
Juniperus pfitzeriana, 12 to 15 ins. XX.....	40.00
9 to 12 ins. XX.....	40.00
Golden, 9 to 12 ins. XX.....	40.00
Thuja woodwardi, 8 to 12 ins. XX.....	40.00
elegantissima, 8 to 10 ins. XX.....	40.00
Ilex rotundifolia, 8 to 12 ins. XX.....	45.00
convexa, 8 to 10 ins. XX.....	35.00

TAXUS, 3 TIMES TRANSPLANTED

Taxus cuspidata, 9 to 12 ins. XXX..... 50.00

European White Birch (seedlings)..... 50.00

2 to 3 ft..... 16.00

3 to 4 ft..... 30.00

4 to 5 ft..... 45.00

5 to 6 ft..... 70.00

Cash with order earns free packing.

DAMASCUS NURSERIES

Damascus, O.

ROOTED CUTTINGS

Pfitzer Juniper, 5e each.

Abelias, 4e each.

The following 2 1/2-in. potted plants, 10e each: Pfitzer Juniper, Boxwood large, red-berried Pyracantha, Pyracantha Islandi, watermelon-red Crap Myrtle, Burford Holly and Magnolias. Also Euonymus, 40e each.

To be picked up by truck. Check with order.

BARDEN'S NURSERY & CUT FLOWERS

4201 North St. Fort Smith Ark.

LINING-OUT STOCK

100 1000

Juniperus chinensis Blue Yane (Pfitzer sport), 6 ins., 2 1/2-in. pots..... \$22.50 \$200.00

Hardy wherever Pfitzer Juniper grows

Juniperus chinensis Sylvesteris 2-yr..... 25.00 225.00

12 to 15 ins., 2 1/2-in. pots..... 25.00 225.00

Juniperus chinensis Sylvesteris 2-yr..... 25.00 225.00

12 to 15 ins., 2 1/2-in. pots..... 25.00 225.00

Thuja orientalis Blue Spire..... 20.00 175.00

8 to 10 ins., 2 1/2-in. pots..... 20.00 175.00

(These are heavy pot-grown liners ready for outside planting.)

BRADSHAW'S NURSERY, League City, Tex.

LINING-OUT STOCK

Strong, healthy 2 1/2-in. pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.

	Per 100
Buxus harlandi.....	\$18.00
Buxus japonica.....	15.00
Callistemon lanceolatus (3-in. pots).....	17.50
Callistemon rigidus.....	15.00
Cleyera japonica.....	15.00
Ilex (see our ad under Holly this issue)	
Juniper chin. glauca hetzi.....	15.00
Juniperus chin. pfitzeriana.....	20.00
Ligustrum lucidum comp.....	15.00
Magnolia fuscata (3-in. pots).....	15.00
Omanthus delavayi.....	15.00
Omanthus fortunei.....	15.00
Omanthus fragrans.....	15.00
Pittosporum tobiara.....	15.00

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

ILEX AND TAXUS

	Per 100
2000 Ilex rotundifolia, 8 to 10-in. spread.....	\$100.00
3000 Ilex rotundifolia, 1-yr. bed-grown.....	18.00
4000 Ilex convexa bullata, 2-yr. bed-grown.....	35.00
2500 Ilex convexa bullata, 1-yr. bed-grown.....	18.00
2400 Taxus capitata, seedlings, 2-yr. bed-grown.....	25.00

Immediate or spring delivery.
DIRKMAAT AZALEA FARM
P. O. Box 453, 516 Stevens Ave.
Ridgewood, N. J.

STRONG LINING-OUT STOCK

Pfitzer Juniper, 4 to 6 ins., 1-yr.....	\$0.06
6 to 10 ins., 1-yr.....	.12
6 to 10 ins., 2-yr.....	.14
10 to 14 ins., 2-yr.....	.18
Ilex rotundifolia, rooted cuttings.....	.02
Ilex burfordi, rooted cuttings.....	.02
Nandina seed per lb.....	1.00
Ligustrum lucidum, rooted cuttings.....	.02
Euonymus patens, rooted cuttings.....	.02
6 to 8 ins.....	.04
Abelia grandifolia, 6 to 12 ins.....	.04
English Ivy, rooted cuttings.....	.02

E. F. DuBOISE NURSERY, Huntville, Ala.

FINER LINERS

Our biggest and best stock of liners since 1921 is offered in our new fall and spring descriptive catalog. Finest quality at regular prices means more profits for you whom we strive to please. A free copy will be mailed upon request. Come see us if you can.

JOHN VERMEULEN & SON, INC.

Finer Liners, A-12, Neshanic Station, N. J.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

MAGNOLIAS

ORIENTAL MAGNOLIAS

Now is the time to stock Magnolias for spring bloom. Will store in any protected cool place. H&B plants should be hauled in by January 15 for dormant buds.

FIELD-GROWN, B&B FOR LANDSCAPING

OR SALESYARD. BUDDED

	2 to 3 ft.	3 to 4 ft.	4 to 6 ft.
Magnolia nikra.....	\$1.50	\$1.60	\$2.25
Magnolia soulangeana.....	1.30	1.60	2.25

LINERS FOR FIELD PLANTING.

HEAVY ROOTED, NICE STOCK.

	2 to 3 ft.	3 to 4 ft.	4 to 6 ft.
Per 100.....	\$25.00	\$30.00	\$35.00
Magnolia nikra.....	25.00	30.00	35.00
Magnolia soulangeana.....	25.00	30.00	35.00

ILEX ROTUNDIFOLIA.

K'RUHME AZALEAS, CAMELLIAS,

other EVERGREENS.

B&B AND CONTAINER-GROWN.

ALL PRICES P.O.B. OUR NURSERY.

FLOWERWOOD NURSERY, INC.

Phone 4-3612 Loxley, Ala.

MAPLES

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.....	\$ 3.00	\$2.50
8 to 10 ft., 1 to 1 1/4-in.....	4.40	3.50
9 to 11 ft., 1 1/4 to 1 1/2-in.....	6.00	5.00
10 to 12 ft., 1 1/2 to 1 3/4-in.....	8.80	7.00
11 to 13 ft., 1 3/4 to 2-in.....	11.00	9.00

PRINCETON NURSERIES

Princeton, N. J.

SUGAR MAPLE SEEDLINGS

6 to 10 ins. only.

500.....	\$ 25.00
1,000.....	45.00
5,000.....	215.00
10,000.....	400.00

Net cash.

VAUGHAN'S NURSERY &

GREENHOUSE CO.

15910 Cleveland Rd. Granger, Ind.

COLLECTED ACER

RUBRUM AND SACCHARINUM

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

NORWAY MAPLES

Straight trees, good root system.

	10 to 25	25 to 100
1 1/2-in. caliper.....	\$10.00	\$ 9.30
2-in. caliper.....	13.00	11.50
2 1/2-in. caliper.....	15.00	13.50
3-in. caliper.....	18.50	17.00

BULL'S NURSERIES

619 N. Montauk Highway Babylon, N. Y.

PACHYSANDRAS

PACHYSANDRAS

	Per 100	Per 1000
1-yr. plants.....	\$ 4.50	\$40.00
2-yr., field-grown, heavy.....	7.00	60.00
2 1/2-in., pot-grown.....	10.50	95.00

HANSEN BROS. NURSERIES, INC.

1268 Montgomery Ave. Narberth, Pa.

PACHYSANDRA TERMINALIS

1-yr., field-grown, \$65.00 per 1000.

Rooted cuttings, \$4.25 per 100.

HILLCREST GREENHOUSES

Box 468 Franklin, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock. \$45.00 per 1000; \$42.50 per 1000 for \$500 or more, including good packing.

Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.

PACHYSANDRAS

Out of 2-in. pots, \$12.00 per 100, \$100.00 per 1000, F.O.B. Elizabeth, N. J.

DELAWARE VALLEY NURSERY

948 N. Broad St. Elizabeth, N. J.

PEONIES

SURPLUS PEONIES, FALL, 1957

	3 to 5-eye	2 to 3-eye
Baroness Schroeder.....	105	75
Bunker Hill.....	220	150
Clarette.....	40	35
Duchess of Portland.....	70	30
Edulis Superba.....	193	190
Felix Crouse.....	260	130
Festiva Maxima.....	80	95
Georgiana Shaylor.....	60	35
Karl Rosefeld.....	150	85
Lady Alexandra Duff.....	150	110
L'Etincelante.....	20	30
Longfellow.....	30	85
Martha Bulloch.....	15	50
Mme. de Verneville.....	125	125
Mons. Jules Elie.....	300	140
Mrs. Frank Beach.....	30	50
Nippon Beauty.....	30	35
Reine Hortense.....	40	45
Ruigemo.....	23	60
Samuel Hughes.....	15	30
Sarah Bernhard.....	40	40
Solange.....	90	115
Toro-no-maki.....	30	30
Venus.....	30	30

Strong, healthy, cut from young block.

3 to 5-eye, 30e each; 2 to 3-eye, 25e each.

Will sell the entire lot for 5c less per plant.

ACT QUICKLY

HILLENMEYER NURSERIES

Lexington, Ky.

OFFICIALS PEONIES

Very early flowering..... 10 100

OFF. ALBA-PLENA, dbl. white, \$3.50 \$50.00

OFF. MUTABILIS, pink to white, 4.50 40.30

OFF. ROSEA-PLENA, dbl. pink, 4.50 40.00

OFF. RUBRA-PLENA, dbl. red, 5.00 45.00

DOUBLE PEONY COLLECTION

Finest cut flower varieties. Clean, healthy roots. 2 to 5 eyes, grown 1 year from single propagating units. Far superior to divisions of old, worn-out clumps. Collection contains 40 RED, 33 WHITE and 30 PINK.

Price: \$29.50 per collection.

Herbaceous and Tree Peony list on request.

GROWERS EXCHANGE, Farmington, S. Mich.

2-YR. FIELD-GROWN PEONIES

Whole clumps, not divided; 6 eyes and up.

\$75.00 per 100, \$700.00 per 1000; divisions.

3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.

following varieties:

Adolph Rousseau, Albert Crouse, Baroness

Schroeder, Duch. de Nemours, Edulis Su-

perba, Felix Crouse, Festiva Maxima, Gen.

McMahon, Karl Rosefeld, Lady Alex. Duff,

Marie Lemoine, Mons. Jules Elie, Reine Hor-

tense, Sarah Bernhard.

VERKADE NURSERIES, Wayne, N. J.

TREE AND HERBACEOUS PEONIES

ATHA GARDENS, WEST LIBERTY, O.

Classified Ada Offer Maximum

Results at Minimum Cost.

PHLOX

PHLOX SUBULATA

or

CREEPING PHLOX

See our ad in the October 15 issue or write us for list.

TANGLEWOOD FARM

Box 336-N Clinton, S. C.

PIERIS

PIERIS JAPONICA LINERS 100 1000
8 to 12 ins., field rows, 3-yr., TTT...\$40 \$375
6 to 8 ins., peat bed, 2-yr., TT... 30 275
4 to 6 ins., peat bed, 2-yr., TT... 20 175
Transplants, 1-yr., 10 90

No packing charges.
ECKHART NURSERIES
16 Topps Blvd. Newport, R. I.

PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
4-yr., TT, 8 to 12 ins.,\$40.00 \$350.00
4-yr., TT, 6 to 8 ins., 30.00 250.00
PETER BROUWER'S NURSERIES
54 Lester St. New London, Conn.

PIERIS JAPONICA (ANDROMEDA)
Per 100 Per 1000
1-yr., T, 3 to 3 ins.,\$8.00 \$75.00
PLANE VIEW NURSERY
West Main Rd. Newport, R. I.

PRIVET

Thousands of Amur River North Privet
Per 100 Per 1000
18 to 24 ins.,\$3.00 \$25.00
2 to 3 ft., 4.00 30.00
3 to 4 ft., 5.00 40.00
Immediate shipment. Satisfaction guaranteed.
Robinson Nursery Co., Greenville, Ga.
Amur River North Privet, heavily branched.
18 to 24 ins.,\$3.00 per 100, \$25.00 per 1000
2 to 3 ft., 4.00 per 100, 30.00 per 1000
3 to 4 ft., 5.00 per 100, 40.00 per 1000
Greenville Nurseries, Mrs. R. L. Robinson, Prop., Greenville, Ga.

RHODODENDRONS

RHODODENDRONS
HYBRID RHODODENDRONS
Landscape sizes.
Different colors.
PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
Phone Bayport 8-0811
RHODODENDRON MAXIMUM
Nursery-grown and collected, 2 to 7 ft.
high. Well-shaped, symmetrical plants.
CURTIS NURSERIES, INC.
Callicoon, N. Y.
GRAFTED, NORTHERN-GROWN, HARDY,
HYBRID RHODODENDRONS
LITTLE TREE NURSERIES
Eric Streiff, Prop. Rowley, Mass.
Phone Whitney 8-2541.

ROSEBUSHES

MULTIFLORA ROSE
Top quality plants for living fences and conservation plantings.
Root-crown height Per 1000
caliper
2 to 3 mm., 8 to 15 ins., \$12.50
3 to 5 mm., 12 to 18 ins., 19.50
5 to 8 mm., 18 to 24 ins., 22.50
5 to 12 mm., 18 to 36 ins., 38.50
UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.
4 to 6 mm.,\$27.50 per 1000
4 to 4 mm., 17.50 per 1000
The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this fall, winter or spring. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost.
FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

ARP ROSES
The kind your customers want.
Gardeners who know and love Roses, choose superior ARP ROSES for full root and uniformity. ARP care-grown and ARP machine-packed. Profit-wise nurserymen, garden centers and direct-to-garden mail order firms depend on ARP ROSES. Beautifully packaged. Bare-root for landscape, storage or containers. All-America Rose Selections. 130 great varieties. Catalog and price list. Serving nurseries 36 years.
ARP NURSERY CO., WHOLESALE GROWER
Box 3338-A Tyler, Tex.

THE SEASON'S BEST DEAL.
See for yourself
BY
sending for our 1957-58 trade list.
WE STILL OFFER YOU A CHOICE OF
BARE-ROOT AND PREPACKAGED,
PATENT AND STANDARD ROSES.
NEW LONDON ROSES
The ROSE Nursery
P. O. Box 876 Overton, Tex.
OUR OWN FIELD-GROWN ROSEBUSHES
For fall or early winter.
Standard varieties, No. 1, 50c; No. 1 1/2, 40c.
Patented varieties available at fixed prices.
Budded on seedlings with a fine root system. Ideal for potting or home planting.
DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

ROSEBUSHES
2-YR. PLANTS.

Grown, graded and packed to perfection.
246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND
YOUR REQUIREMENTS NOW!

ROSEBUSHES
ROSEBUSHES
D. L. Thompson, Owner
Dept. AN Tyler, Tex.

ROSEBUSHES
A WIDE ASSORTMENT OF REASONABLY
PRICED HIGH-QUALITY ROSEBUSHES
WITH FAST, COURTEOUS SERVICE
IS WHAT YOU GET AT
MARTIN'S ROSE NURSERY
P. O. Box 155 Arp, Tex.
(A copy of our 1957-58 price list
will be mailed to you upon request.)

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

ROSES
Hybrid Teas, climbers, polyanthas and
floribundas. Excellent quality, priced reasonably. List of varieties free on request.
LINDALE NURSERY
Box 141 Phone 18F2-W. Lindale, Tex.

Rosebushes, good assortment of high quality,
grown, graded, packed by latest methods.
Write for list. Tate Nursery, R. 3, Tyler, Tex.

SEEDS

LOVELL PEACH PITS
Avoid disappointing stands by planting
tested pits with 92 per cent germination. We
offer for immediate shipment, 303 bu. of
these high-testing Lovell pits as follows:
Per bu.
1 to 5 bu.,\$3.85
5 to 10 bu., 3.75
10 to 30 bu., 3.60
30 to 100 bu., 3.45
WAYNEBORO NURSERIES
Waynesboro, Va.

AMERICAN RED (NORWAY) PINE SEED
1957 CROP.
Northern Wisconsin origin.
\$12.00 per lb., delivered.

KENNETH REDMOND, MOSINEE, WIS.
MULTIFLORA ROSE SEED
Carefully cleaned seed from thorny, hardy,
midwestern living fences.
1957 crop, fall delivery.
1 to 10 lbs.,\$3.50 per lb.
10 to 25 lbs., 3.25 per lb.
25 lbs. up 3.00 per lb.
F.O.B. Urbana.
WANDELL'S, R. 3, URBANA, ILL.
New Nandina seed, ready now, \$1.00 per
lb. Shipping daily.
E. F. DuBose Nursery, Huntsville, Ala.

For \$4.00

you can offer that surplus in a
classified ad of 10 lines on these
pages—quickly and easily turning
stock into cash.

At 40c PER LINE

you can keep a list of specialty
items before trade buyers through
the selling season at small cost.

Send your copy (count 6 average
words to line) for the January
1 issue to reach us by December
13.

Forms for January 15 issue will
close December 27.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

COLORADO NEW CROP

EVERGREEN SEED
Buy from the collector. Best prices for
hardy high altitude.

Douglas Fir, Blue Spruce,
Concolor Fir. Write for catalog.
WESTERN EVERGREENS

Route 1 Golden, Colo.
Nandina seed, cured by air drying. Pre-
paid, 1 lb., \$2.50; 2 lbs., \$4.50; 5 lbs., \$11.00;
10 lbs., \$20.00; 25 lbs., \$40.00. Cash. Oldest
and largest Nandina seed shipper in South.
Hal Kohn's Nursery, Newberry, S. C.

Juniperus virginiana (Red Cedar, Platt
type), lb., \$4.50. Biota orientalis (Chinese
Arbutus) (Kansas), lb., \$2.50. Rosa multi-
flora, thorny (Kansas and Neb.), lb., \$2.75.
Forestry Seed Service, Cuba, Kan.

SHRUBS AND TREES

ROOTED CUTTINGS, 1-YR. BEDDED
All stock has been under irrigation.
Per 100 Per 1000
Hex bullata, 4 to 6 ins.,\$10.00 \$90.00
Hex crenata, 5 to 8 ins., 10.00 90.00
Juniper, Andorra, 4 to 8 ins., 10.00 90.00
Juniper, Hetz, 4 to 6 ins., 12.00 100.00
Juniper, Pfitzer, 4 to 6 ins., 12.00 100.00
Ilex glabra, 4 to 6 ins., 10.00
Retinospora plumosa aurea,
6 to 8 ins., 10.00 90.00
Retinospora plumosa,
6 to 8 ins., 10.00 90.00
Taxus brevifolia, 4 to 6 ins., 10.00
Taxus capitata, tips, 4 to 8 ins., 15.00
Taxus cuspidata, 4 to 6 ins., 10.00 90.00
Taxus hatfieldi, 4 to 6 ins., 10.00 90.00
Taxus hickel, 4 to 6 ins., 10.00 90.00
Thuja globosa, 5 to 8 ins., 10.00 90.00
Pachysandra 1.00 35.00

1-YR. SEEDLINGS
Per 100 Per 1000
Acer palmatum\$3.00 \$25.00
Cornus florida 5.00 40.00
Chinese Chestnut 10.00
Fagus sylvatica 10.00 90.00
Taxus capitata 5.00 40.00

2-YR. SEEDLINGS
Per 100 Per 1000
Acer palmatum\$6.00 \$50.00
Balsam Fir, 3 to 5 ins., 4.00 35.00
Picea excelsa, 4 to 6 ins., 3.50 25.00
Picea pungens glauca, 3 to 5 ins., 4.00 35.00
Picea (White Spruce), 4 to 6 ins., 3.50 25.00
Pinus strobus, 4 to 6 ins., 3.50 25.00
Pinus sylvestris, 4 to 6 ins., 3.50 25.00
Thuja occidentalis, 4 to 6 ins., 5.00 40.00
Thuja orientalis, 4 to 6 ins., 3.50 25.00
Tuga canadensis, 3 to 4 ins., 7.00 60.00
Taxus capitata, 4 to 6 ins., 5.00 40.00
Ilex crenata, 4 to 6 ins., 5.00 40.00

3-YR. SEEDLINGS, TRANSPLANTED
Per 100 Per 1000
Taxus capitata, 4 to 8 ins.,\$12.00 \$100.00
Tuga canadensis, 4 to 7 ins., 8.00 70.00
Douglas Fir, 5 to 8 ins., 6.00 50.00
Pinus strobus, 6 to 8 ins., 8.00 70.00

AZALEAS, 3-YR. TRANSPLANTS
Per 100
Hinodogiri\$40.00

4-YR. TRANSPLANTS
Per 100 Per 1000
Douglas Fir, 6 to 12 ins.,\$10.00
Picea excelsa, 6 to 8 ins., 6.00 \$50.00
Picea pungens glauca,
4 to 8 ins., 7.00 60.00
Picea rubens, 12.00
Tuga canadensis, 5 to 8 ins., 10.00 95.00
Tuga canadensis, 8 to 10 ins., 15.00 140.00
Tuga canadensis, 10 to 12 ins., 20.00 190.00
Thuja occidentalis, 5 to 10 ins., 10.00 90.00

YAN DIN NURSERY
Berdan Ave. Freakness, Paterson, N. J.

SHRUBS

ALTHAEAS, NAMED VARIETIES
2 to 3 ft.,\$40.00
3 to 4 ft., 75c
DEUTZIA GRACILIS
15 to 18 ins.,\$60.00
18 to 24 ins., 60c

FORSYTHIA SPECTABILIS
2 to 3 ft.,\$60.00
3 to 4 ft., 60c

HONEYSUCKLE LABELI
2 to 3 ft.,\$50.00
3 to 4 ft., 50c

SPRAEA ANTHONY WATERER
15 to 18 ins.,\$50.00
18 to 24 ins., 50c

TAMARIX, AMURENSIS AND HISPIDA
2 to 3 ft.,\$60.00
3 to 4 ft., 60c
4 to 5 ft., 50c

PHILADELPHUS VIRGINALIS
2 to 3 ft.,\$70.00
3 to 4 ft., 70c

FRENCH NURSERY CO.
Phone 5331 Clyde, O.

ALPINE CURRANT
Strong rooted cuttings.
100\$4.00
1,000 35.00
5,000 150.00
10,000 250.00

GOLDEN MOCK ORANGE
10010.00
1,000 90.00

VARIEGATED DOGWOOD
1009.00
1,000 80.00

NEWLAND'S NURSERY, Lake City, Minn.

ces for

n. Colo.

Pre-

\$11.00

Oldest

South

S. C.

Platt

Chinese

multi-

\$2.75

Kan.

ED

on.

Per 1000

\$ 90.00

90.00

100.00

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EVERGREENS, LINERS

ROOTED CUTTINGS, Each, 100 1000

for spring delivery

Taxus: Cupidata, capitata, hicki, browni\$0.10 \$0.08

Arborvitae: Pyramidal, Globe10 .08

Juniper: Pfitzer, Savin V.E.10 .08

BED LINERS, 2-yr.35 .30

Arborvitae: Pyramidal, Globe, American35 .30

EXTRA HEAVY LINERS

Taxus cuspidata, XXX, 12 to 15 ins., 6-yr. 2.00 1.80

Taxus browni, XXX, 10 to 12 ins., 5-yr. 1.50 1.35

Taxus hicki, XX, 12 to 15 ins., 6-yr. 1.05 .

Scotch Pine, XX, 12 to 24, 4-yr.75 .65

SHRUBS AND TREES

Forstythia, 3 to 4 ft.45 .40

Philadelphus virginialis, 10 to 15 ins.35 .30

Birch, European White, 20 to 25, 15 to 18 ft., B&B, \$15.00 each.45

Chinese Elm, 6 to 12 ins., S., \$10.00 per 1000 12 to 24 ins., S., \$25.00 per 1000

200, 1 1/2 to 2 1/2 ins., TT 3.65 .

200, 3 to 2 1/2 ins., TT, row-run 3.00 .

500 Silver Maple, 6 to 8 ft., TT 1.75 .

TERMS: 2 per cent discount, cash with order, free packing. One-fourth deposit holds your order until spring. 25 at 100 rate; 250 at 1000 rate.

WRITE FOR COMPLETE PRICE LIST.

RICHARDSON NURSERIES

5347 Fir Rd., R. 1 Granger, Ind.

Phone Blackburn 9-1010.

FLOWERING TREES

Crab Apple, 40 varieties; 1-yr. trees. Normal digging season begins December 1. Limited number. 7 to 8 ft., reset at one year. Descriptive booklet available.

Magnolias, soulangiana and nigra. 5 to 6 ft., B&B, \$6.00.

6 to 8 ft., B&B, \$7.00.

Cornus kousa chinensis, seedlings. 5 to 6 ft., B&B, \$6.00.

6 to 8 ft., B&B, \$7.00.

Cydonia Crismum Beauty.

A brilliant red, late, long blooming period.

Heavy, 6 to 8 ft., B&B, \$6.00.

SIMPSON ORCHARD CO. INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone 483-3

Mahonia aquifolium, a true aristocrat for the modern garden. Will thrive most anywhere in U. S. 1957 seed, carefully collected, cleaned by flotation. Oz., \$3.50; 4 oz., \$8.50; 1/2 lb., \$14.00; 1 lb., \$25.00. Approx. 48,000 seeds per lb. State U. S. inspection tag.

Crataegus mollis (Downy Hawthorn) seed, 1957 crop, now ready. 1 lb., \$7.50; 1/2 lb., \$4.50.

Mahonia, 3-yr., 6 ins. up, tr., 100, \$20.00.

Cotoneaster, divaricata, 6 ins. up, tr., 100, \$15.00; acutifolia, 3-yr., tr., \$15.00.

Cash. No packing or carrying charges. Return in 5 days, full refund.

Mayhan Nursery, Verdale, Wash.

DOGWOOD SPECIAL

Cornus florida rubra, 18 to 24 ins. and 24 to 30 ins., 1-yr.

Double-flowering Peach, Purple-leaved flowering Plum.

1-yr. Almey Crab buds and fruit trees.

Write for special prices.

CHOCOLA NURSERY

Winchester, Tenn.

CHINESE ELMS

4 to 5 ft. Per 100

5 to 6 ft. \$20.00

6 to 8 ft. 40.00

8 to 10 ft. 60.00

10 to 12 ft. 90.00

WASHAM NURSERY, SWEETWATER, Tex.

FORSYTHIA BEATRICE FARRAND

Strong plants out of 2 1/2-in. plastic pots. \$25.00 per 100, \$225.00 per 1000.

No additional charge for packing.

P.O.B. Chino, Calif.

Minimum order 100 plants.

DESCANSO DISTRIBUTORS, INC.

12492 Pipeline Chino, Calif.

COLLECTED STOCK

Quality, open field-grown.

Sugar and rubrum Maples, Pin Oak, Chinese Elm, White Birch, Sycamore, white Dogwood, Vinca (Myrtle), Phone S. Bend, Central 33318.

VAUGHAN'S NURSERY & GHSE. CO.

15910 Cleveland Rd. Granger, Ind.

FICUS PANDURATA MOSSES

5 or more leaves 80c.

These have been heeled into shavings to create a heavy root system. Very nice mosses, pack 25 plants to carton.

GOOCHLAND NURSERIES, INC.

2 mi. North of Ft. Meade on U. S. hwy. 17

Pembroke, Fla.

VIBURNUM CARLESI

Seedlings that have been bedded 2 years. Excellent for lining out or for pre-wrapping for cash and carry. In lots of 25 or more, 12 to 15 ins., 60c; 15 to 18 ins., 75c.

HILLENMEYER NURSERIES

Lexington, Ky.

EUONYMUS VEGETUS

12 to 15 ins., bare-root\$1.00

15 to 18 ins., bare-root 1.25

18 to 24 ins., bare-root 1.50

(Add 40c for B&B.)

FRENCH NURSERY CO.

Phone 5331 Clyde, O.

SHRUBS

Wide assortment of varieties and sizes.

Ask for wholesale list.

WAYNESBORO NURSERIES

Waynesboro, Va.

SHRUBS AND TREES

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

SPECIAL OFFER

Transplanted Alpine Currant 12 to 15 ins. \$35.00 per 100, \$325.00 per 1000.

STUART PACKING CORP.

Newark, N. Y.

SHADE TREES

Large assortment of varieties and sizes. Ask for wholesale price list.

WAYNESBORO NURSERIES

Waynesboro, Va.

Surplus Stock can be easily and quickly turned into Cash

by listing it in the American Nurseryman Classified Ads

TAXUS

TAXUS, FINER LINERS

Strong, healthy, hard to beat. 100 1000

CUSPIDATA, spreading.

2-yr., T, 6 to 9 ins., bed\$0.40 .

2-yr., T, 9 to 12 ins., bed45

CAPITATA, upright, from Jap. seed, heavy

4-yr., TT, 9 to 12 ins., bed .. .60 \$0.55

4-yr., TT, 12 to 15 ins., bed70 .65

4-yr., TT, 15 to 18 ins., bed80 .75

6-yr., TTT, 9 to 12 ins., field75 .70

6-yr., TTT, 9 to 12 ins., field80 .85

CUSPIDATA DENSIFORMIS.

2-yr., T, 9 to 12 ins., bed50 .

CUSP. INTERMEDIA, rooted cuttings, 1-yr., 6 to 8 ins.12 .

3-yr., T, 10 to 12 ins., heavy, bed50 .

CUSP. VERMULEN, rooted cuttings, 1-yr., 4 to 6 ins.10 .09

1-yr., T, 6 to 10 ins., bed25 .22 1/2

2-yr., 6 to 9 ins., bed40 .

2-yr., T, 9 to 12 ins., bed45 .42 1/2

3-yr., TT, 6 to 12 ins., field60 .

4-yr., TT, 9 to 12 ins., field75 .

MEDIA BROWN, 2-yr., T, 6 to 12 ins., bed45 .

MEDIA HATFIELDI, rooted cuttings, 1-yr., 4 to 6 ins.10 .09

rooted cutgs., 1-yr., 6 to 8 ins.12 .

2-yr., T, 6 to 9 ins., bed40 .

2-yr., T, 12 to 15 ins., bed55 .

3-yr., TT, 6 to 12 ins., field60 .

4-yr., TT, 9 to 12 ins., field75 .

MEDIA HATFIELDI, spreading rooted cutgs., 1-yr., 4 to 10 ins.12 .11

MEDIA HICKSI, 2-yr., T, 10 to 15 ins., bed80 .

MEDIA KELSEYI, 1-yr., T, 6 to 9 ins., bed35 .

2-yr., T, 6 to 9 ins., bed40 .37 1/2

2-yr., T, 9 to 12 ins., bed50 .

4-yr., TT, 9 to 12 ins., field50 .

MEDIA VERTICALS, tall, narrow, hardy (ask for catalog)

1-yr., 2 1/2-in. pots35 .32 1/2

2-yr., T, 6 to 9 ins., bed50 .

2-yr., T, 9 to 12 ins., bed50 .

4-yr., TT, 6 to 12 ins.90 .

JOHN VERMEULEN & SON, INC.

Finer Liners A-2 Neshaanic Station, N. J.

TAXUS LINERS

1000 capitata, tips, C., 2-in. bands. 100 1000

2-yr., X \$0.20 \$0.18

1000 cuspidata, C., 2-in. bands, 2-yr., X15 .14

1000 capitata, seedlings, 3 to 4 ins., 2-in. bands, 2-yr., X09 .08

5000 capitata, seedlings, bed, 2-yr., 4 to 8 ins., heavy12 .10

5000 capitata, seedlings, bed, 1-yr., 3 to 4 ins., nice06 .05

3000 capitata, seedlings, 5-yr., XXX, heavy, sheared, 8 to 12 ins.62 .60

2 per cent for cash before January 1. No shipping banded stock. 50 per cent deposit with order, balance before shipping.

RITTER'S NURSERY

Benton, Columbia Co., Pa.

TAXUS CAPITATA

Strong 2-yr. seedlings, seeds sown lightly, plants grown with plenty of room in beds. \$15.00 per 100, \$125.00 per 1000.

C. HOOGENDOORN NURSERIES

Turner Road Newport, R. I.

More customers for you!

Over 9,520 subscribers, all active buyers, see your ad in the American Nurseryman.

VIBURNUMS

VIBURNUM CARLESI

Per 100 Per 1000

2-yr. seedlings, 4 to 6 ins. \$15.00 \$125.00

2-yr. seedlings, 6 to 8 ins. 20.00 175.00

2-yr. seedlings, 8 to 12 ins. 30.00 250.00

C. HOOGENDOORN NURSERIES

Turner Road Newport, R. I.

If you don't find it listed here try a Want Ad in the next issue of the American Nurseryman.

WANTED

500 Scarlet Oak (Quercus coccinea), 2 to 3-ft. or 3 to 4-ft. liners.

20 Moerheim Spruce, 2 to 3 ft., 3 to 4 ft., specimen plants.

Taxus, cuspidata, browni and hicki.

HOLLAND NURSERY

6501 S. Peoria Tulsa 15, Okla.

WANTED—CUTTINGS FOR ROOTING

We have room under excellent conditions to root up to 50,000 Evergreen, Azalea or Ilex cuttings. Contact must supply cutting wood. Write.

THE CAPE COD NURSERIES

H. V. Lawrence, Inc. Falmouth, Mass.

Wanted—Large quantities of Taxus wood for cuttings, to be shipped during the fall season. Make offer of varieties, quantities and best cash price.

Verkade's Nurseries, Wayne, N. J.

SUPPLIES AND SUNDRIES

BURLAP

NEW BURLAP
In bolts of 100 to 125 yards.
HEAVYWEIGHT BURLAP
FOR PROTECTION

36 ins.	21½¢ per yd.
48 ins.	22½¢ per yd.
48 ins.	24½¢ per yd.
48 ins.	26¢ per yd.
54 ins.	29¢ per yd.
60 ins.	32½¢ per yd.
72 ins.	40½¢ per yd.

LIGHTWEIGHT 57-IN. BURLAP EROSION CLOTH for seeded lawns and slopes, 21½¢ per yard. All prices are net F.O.B. New York. Minimum order 1 bolt. Orders of 3 bolts or more freight prepaid.

LEWIS INTERNATIONAL CO.
666 Clinton Ave. Newark 8, N. J.

CANE STAKES

BAMBOO CANE STAKES
Medium heavy Pencil thickness
Green or natural Dyed green

	Per 500	1000	2000
1½ ft.	\$2.40	\$3.20	\$5.70
2 ft.	3.20	4.20	7.60
2½ ft.	4.00	5.20	9.50
3 ft.	4.80	6.60	12.40
3½ ft.	5.60	8.10	15.20
4 ft.	6.40	9.00	17.10
5 ft.	8.00	15.00	28.00
6 ft.	9.60	18.00	34.00

SPLIT BAMBOO, dyed green 1000 5000

12 ins.	\$2.10	\$9.00
15 ins.	3.00	12.60
18 ins.	3.80	14.40
24 ins.	4.50	21.60

HEAVY GRADES, NATURAL 1000 5000

	½ to ¾ in.	¾ to 1 in.	1 to 1½ in.
4 ft.	\$2.88	\$3.44	\$4.24
5 ft.	3.60	4.30	5.30
6 ft.	4.32	5.16	6.36
7 ft.	5.04	6.02	7.42
8 ft.	5.76	6.88	8.48

Approximate average thickness at bottom end. 5 bales up less 5 per cent; 10 bales up, less 10 per cent. F.O.B. shipping point. Special prices for carlots.

A. C. PATTERSON, CENTERTOWN, KY.

LIGHTNING SERVICE

FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices and generous quantity discounts.
McHUTCHISON & CO.
695 Grand Ave. Portland 2, Ore.
1250 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES

All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

CHRISTMAS DECORATIONS

COLORADO PINE, SPRUCE AND FIR CONES
Obtained from gentle need extraction, not picked from the ground.
\$1.00 per burlap sack.
Write for information.
WESTERN EVERGREENS
Route 1 Golden, Colo.

PONDEROSA PINE CLUSTERS
3 to 7 per branch. Approximately 6 to 8-in. stem. CUT ON ORDER to assure freshness. Minimum order 10. F.O.B. Golden.
WESTERN EVERGREENS
Route 1 Golden, Colo.

FLATS

MIXED SOUTHERN HARDWOOD FLATS
Includes Gum, Cottonwood, Maple, Willow and other soft hardwoods.

	Per 100
No. 1, 14x20x2½	\$24.85
No. 2, 14x20x3	29.00
No. 3, 12x16x2½	19.00
No. 4, 12x16x3	22.50
No. 5, 14x16x2½	21.50
No. 6, 14x16x3	25.50
No. 7, 15x22x2½	28.50
No. 8, 15x22x3	33.00
No. 9, 11¼x22x2½	23.00
No. 10, 11¼x22x3	26.75
No. 11, 14x16x4	29.50
No. 12, 5x11x5	16.00
No. 13, 5x16x5	18.50

Ends are 13/16; sides and bottom are ¾ resawn lumber, surfaced one side. Can ship by commercial truck lines or LCL freight from Karnak, Ill.

MAIN BROS. BOX AND LUMBER CO.
Incorporated 1902 Karnak, Ill.

CYPRESS FLATS

Shipped from Williamston, N. C.
WHITE CEDAR FLATS
Shipped from Cook, Minn.

	Price	Wt.	Wt.
Order by No.	Per	per	per
No. 1, 14x20x2½	\$27.00	320	400
No. 2, 14x20x3	31.50	400	500
No. 3, 12x16x2½	20.75	260	325
No. 4, 12x16x3	24.50	275	345
No. 5, 14x16x2½	23.25	275	345
No. 6, 14x16x3	27.50	290	365
No. 7, 15x22x2½	30.75	380	475
No. 8, 15x22x3	35.50	425	535
No. 9, 11¼x22x2½	25.00	320	400
No. 10, 11¼x22x3	29.00	400	500
No. 11, 14x16x5	32.75	450	560
No. 12, 5x11x5	16.75	160	200
No. 13, 5x16x5	19.00	215	270

Plant boxes, 5x8½x2½-in., 5.50 45 60

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.

Above prices apply to both Cypress and Cedar.

5 per cent discount on orders of 1000 or more; 10 per cent discount on carloads of 30,000 lbs. or more.

The above sizes are inside measurements. Bottoms and sides are ¾-in. thick and ends are ¾-in. thick. All material surfaced on one side.

Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus ¼¢ per end piece for the first 1000 ends; ½¢ per end thereafter.

Write inquiries and orders for White Cedar flats to Cook, Minn., and for Cypress flats to Williamston, N. C.

Shipped knocked-down in units of 25. F.O.B. mills. All shipments by truck unless otherwise specified. Attach check. Order by number, especially if by telegram.

H. C. HILL & SONS
Manufacturers of flats, boxes, wood turnings and specialties.
Phone North 6-3348 Cook, Minn.
Phone SWift 2-4127, Williamston, N. C.

REDWOOD FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. \$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 6 ft., \$4.50 per bdl.
50 pcs. to bundle, 8 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, YOUNGSTOWN 2, O.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS
All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS
21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, \$6.50 per 25-lb. bag.
\$22.00 for 4 25-lb. bags.

LONG-LIFE FEEDS
20-20-20 General Purpose Feed
\$7.00 per 25-lb. bag, \$24.00 for 4 25-lb. bags.

13-6-6 Organic Special. Du Pont Uramite Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.
\$7.50 per 25-lb. bag, \$28.00 for 4 25-lb. bags.
Du Pont Uramite. 38 per cent nitrogen from methyl-urea, \$12.00 per 50-lb. bag.
Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

Write for complete price list.

Freight prepaid, east of Mississippi, on all orders totaling 300 lbs. or more of above materials. Less than 300 lbs., F.O.B. Allentown, Pa.

ROBERT B. PETERS CO.
739 North 7th St. Allentown, Pa.

FLOCKING SUPPLIES

FLOC-FLO
Supplies, equipment and free "How to Do It."
FLOC-FLO ENGINEERING DESIGN
5802 Olson Highway Minneapolis, Minn.

HOTBED SASH

SISALGLAZE SASH
Get all the information before you buy your sash. Also information on Sisalglaze greenhouses.
ROUGH BROS.
4227 Spring Grove Ave. Cincinnati 23, O.

LABELS

DAHLIA OR TREE LABELS
Priced per carton

	Plain	Painted
3¼x½ ins., notched, not wired	\$3.00	\$3.60
3¼x½ ins., wired (copper)	3.95	4.90

POT LABELS

	Plain	Painted
4x½ ins. (cartons 1000 each)	3.95	4.60
5x½ ins. (cartons 1000 each)	4.30	5.10
6x½ ins. (cartons 1000 each)	4.70	5.60

Priced per carton

	Plain	Painted
8x½ ins. (cartons 500 each)	\$3.60	\$4.30
10x½ ins. (cartons 500 each)	4.20	5.10

GARDEN STAKES

	Plain	Painted
8x½ ins. (cartons 250 each)	3.00	3.60
10x½ ins. (cartons 250 each)	3.30	3.90
12x1¼ ins. (cartons 100 each)	2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
"We ship same day."

YOHO & HOOKER, YOUNGSTOWN 2, O.

ORCHID SUPPLIES

ORCHID SUPPLIES
FIR BARK, hobby bag, 65¢; prof. bag, \$1.85; 2-cu.-ft. bag, \$3.75.

Detex	.....qt.	\$3.50	gal.	\$11.00
Gaviota	.....1 lb.	1.25	5 lbs.	6.00
Fish Meal	.....1 lb.	.60	10 lbs.	6.00
Anti-Damp	.....qt.	3.00	gal.	9.75
Urea Crystals	.....5 lbs.	1.60	25 lbs.	7.40
Dolomite Lime	.....25 lbs.	4.50	50 lbs.	7.50
Hoof and Horn	.....25 lbs.	4.50	100 lbs.	14.50
Ammonium Nitrate	.....25 lbs.	2.75	100 lbs.	8.00
3-1-2 Fertilizer	.....1 lb.	1.00	25 lbs.	15.00
Atlas Fish Emulsion	.....qt.	1.90	gal.	6.25

Stake Holders for
potting in Fir bark..6, 1.00; 72, 10.85
Hydromix Units for spraying and
foliage feeding..... 3.95
Priced F.O.B., subject to change without notice.

WRIGHTWOOD FLORAL CO., INC.
1420 Wrightwood Ave. Houston 9, Tex.

PLANT TUBS

UTILITY PLANT TUBS
made from
New England White Pine
Per 100 tubs, F.O.B. NEW HAMPSHIRE.

Top dia.	Depth	Stained green	Stained white	Enam. White glossy gold
7-in.	7-in.	\$90	\$98	\$105
8-in.	8-in.	90	98	112
8-in.	8-in.	98	112	112
9-in.	9-in.	98	112	117
9-in.	9-in.	102	112	117
10½-in.	9½-in.	102	112	117
10-in.	9-in.	112	120	127
11-in.	7-in.	105	112	120
12-in.	7-in.	110	125	130
12-in.	9-in.	132	147	147
12-in.	11-in.	180	195	195
14-in.	8-in.	180	195	195
14-in.	13-in.	210	225	225

For PRICES F.O.B. CHICAGO add 10 per cent.

Above prices apply on quantities of less than 100. Minimum order 5 tubs of any one size or color.

Sole Distributors.
ALEC HENDERSON, INC.
1305 W. Randolph St. Chicago 7, Ill.

PLASTIC FILM

POLYETHYLENE FILM
Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.

3 ft. wide by 100 ft. long	.....\$ 6.00 per roll
4 ft. wide by 100 ft. long	..... 8.00 per roll
6 ft. wide by 100 ft. long	..... 12.00 per roll
8 ft. wide by 100 ft. long	..... 16.00 per roll

Other sizes available up to 20 ft. wide.

Send \$1.00 for liberal sample, 4 ft. x 10 ft. postpaid.

Special deal for greenhouse construction.
5 rolls to 9 rolls, 25 per cent discount.
10 rolls or more, 33 1/3 per cent discount.
"We ship same day."

YOHO & HOOKER
520 Williamston Ave. Youngstown 1, O.

POLYETHYLENE FILM

Wt.	Width	Roll length	Price
4 mil.	48 ins.	100 (transparent)	\$ 7.25
2 mil.	50 ins.	200 (transparent)	1.50
1.5 mil.	36 ins.	500 (black for mulching)	16.31

Width available up to 20 ft. Write for our low prices on quantity orders.

POLY-LO CO.
Box 5111 Winaton-Salem, N. C.

POLYETHYLENE FILM

2 mil. in 200 ft. rolls, 34 ins. wide, \$6.48;
 3 mil. wide, \$9.55; 108 ins. wide, \$18.85;
 4 mil. in 100 ft. rolls, 36 ins. wide, \$6.97;
 54 ins. wide, \$9.91; 126 ins. wide, \$22.05.
 5 rolls, less 10 per cent; 10 rolls, less 20
 per cent. Also wider widths available.
 Information on Sinalglaze Polyflex available.
 We pay freight if check is with order.

ROUGH BROS.

4229 Spring Grove Ave. Cincinnati 23, O.

SPHAGNUM MOSS

Fresh clean sphagnum moss, write or phone
 City Point 133 for our low prices on wire-
 bound bales in truckloads or carlots.
 Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground
 moss. Price us on truckloads delivered.
 Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.

1x1-in.—3 ft., pointed \$3.00 per bundle
 1x1-in.—4 ft., pointed 3.50 per bundle
 1x1-in.—5 ft., pointed 4.50 per bundle
 1x1-in.—6 ft., pointed 5.50 per bundle
 1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and red-
 wood; are good, strong stakes and will give
 long service. "A little better than seems
 necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL

GALVANIZED tree guying WIRE,

HOSE for guy wire PADDING.

Prices and sample sent on request.

SCHUPP SUPPLY CO., WILMETTE, ILL.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the

American Nurseryman Classified Section.

WREATHS

BALSAM WREATHS

Nurserymen who want quality and service
 have ordered from us for 20 years. We
 guarantee satisfaction.

HOOP WREATHS

9-in., 22 to 24-in. dia., wt. 3 1/2 lbs.,
 bales of 10 \$ 8.00
 12-in., 26 to 28-in. dia., wt. 5 lbs.,
 bales of 10 10.00
 18-in., 36-in. dia., wt. 9 lbs.,
 bales of 10 14.50

GRAVE BLANKETS ON CHICKEN WIRE
 3x7 ft., full size, heavy, each 2.75
 Crates of 20 or 25, each 2.50

BALSAM ROPE

4-in., on 4 strands binder twine, well-
 made; 100-ft. coils, 10c per ft.

SELECT BOUGHS

Balsam, 12 to 24 ins., 100-lb. bales 4.50
 White Pine, 18 to 30 ins., 100-lb. bales 6.50
 Made of fresh material for nurserymen
 and florists' best trades. Truck freight up
 to November 28 or express second class.
 Cash, or 25 per cent cash, balance C.O.D.
 Phone or wire orders collect if over \$25.00.

J. R. PALMER & SON

Blackduck, Minn.

BRODLEAF

Imported Holland

PEAT MOSS

Roots screened out

You get the
 best part—the Peat Flakes!

Genuine BOSKOOP
REEDMATSHOLLAND BURLAP
SQUARES—3 Grades

- Boskoop
- Standard
- New heavy

COMPACT PINUP

HALF

MOON

MFG. & TRADING CO.

90 West St., New York 6, N. Y.

Address all correspondence to:

Box 27, Plainfield, N. J. PL 5-8228

OBITUARY

E. Frank Custer

E. Frank Custer, owner of Custer Bros. Nurseries, Normal, Ill., died suddenly at his home October 17. He was 58. Entering his father's nursery business at the close of World War I, Mr. Custer had taken ownership of the firm at his father's death in 1933, and he and his wife continued operations of the nursery. A member of the American Association of Nurserymen and the Illinois State Nurserymen's Association, Mr. Custer was also active in the Normal Rotary and Optimist Clubs and in the Carl S. Martin post of the American Legion. Survivors include his widow, Marcia; three sisters, and a brother.

Jacob John Schmidt

Jacob John Schmidt, nurseryman in the Portland, Ore., area for many years, died October 26 after a short illness. He was born in Wisconsin January 22, 1886, and had lived in Portland for 70 years. He is survived by his widow, Mrs. Mary O. Schmidt; a daughter, Mrs. Edna Olson, and three sons, Charles, Lester and Henry, all of Portland.

Joseph C. Rich

Joseph C. Rich, 85, a nurseryman at Hillsboro, Ore., died at his home October 24. Born at Etupes, France, he had come to this country 73 years ago, had been a resident of Oregon for 65 years and had lived in the Hillsboro community 40 years. He grew plants which he wholesaled to the trade. He is survived by a daughter; two sisters, and a brother, Chris Rich, of Rich & Sons Nursery, Hillsboro.

John Henry Curtis

John Henry Curtis, a native of Warren county, Tennessee, and a nurseryman at McMinnville, Tenn., died October 14. He was 55 years old. He is survived by the widow, Mrs. Wavie Roberts Curtis; three daughters, and one son.

Harry T. Smeltzer

Harry T. Smeltzer, owner of the Kiski Nurseries, Avonmore, Pa., died October 12 at the age of 59. Born at Greensburg, Pa., Mr. Smeltzer attended Greensburg high school and the University of Pittsburgh. A member of the Pennsylvania Nurserymen's Association, Mr. Smeltzer was noted for his production of fine evergreens. Surviving is his widow, Mrs. Dolly W. Smeltzer.

HELLER-GRO

The Complete Plant Food
for Year Around Feeding

Indoors or out, winter or summer, Heller-Gro gives complete nourishment to trees, cuttings, seedlings — plants of all kinds. Heller-Gro contains all the nutrients needed for healthy, fast growth — 15-15-15, with trace elements.

Heller-Gro's nitrogen is supplied from two sources — nitrates for fast growth response and urea for sustained nourishment.

3 1/4-oz. tubes, 1-lb. pails,
 3-lb. pails, 50-lb. cans

WRITE FOR
 FREE TRIAL SAMPLE

HELLER GREENHOUSE
LABORATORIES

Dept. 42

218 E. Pikes Peak Ave.
Colorado Springs, Colo.Make Money
Every Time You
Make This Simple Test

The Sudbury Soil Test Kit saves you from using wrong fertilizers by showing correct amounts of nitrogen, phosphorus and potash your soils need. Also shows pH. You get bigger yield, more fancies — more profits with less expense.

No One Need Show You How

Easy as reading a thermometer! Nothing to know; nothing to learn. Make tests anytime, anywhere — even while plants are growing in benches or fields — at only 10c per test. No waiting for reports.

SEND NO MONEY!

Let It Pay for Itself

Order today — pay post-
 man only \$4.95 plus post-
 age on arrival, then
 send 4 monthly pay-
 ments of \$6.75 each.

If you want to
 pay cash, we'll
 mail C.O.D. for
 only \$29.95 plus
 postage; or send
 check with
 order and we'll
 mail postpaid.

Money-Back
 Guarantee
 SUDBURY
 LABORATORY
 Box 56-J
 South Sudbury, Mass.

Dealers: Write for Special Offer!



WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

HELP WANTED

MANAGER

Top opportunity with one of America's leading mail-order nurseries for experienced man to take complete charge of our perennial plant division. Must be capable of handling entire nursery operation from employee management straight on through. You will be given every opportunity to advance and, in addition, a good salary and new home in a nice community with good schools. We are looking for someone who is genuinely interested in the nursery business as his life's work. We think we have much to offer that person. Will pay travel expenses for interview. Please write Box 443, care of American Nurseryman, giving complete resume in first letter.

HELP WANTED

NURSERYMEN

One of the largest nurseries in southern California offers profitable, permanent positions to nurserymen with ambition. Security, pleasant working conditions and an unlimited future for the right men. Many extra benefits. All replies will be kept strictly confidential.

MONROVIA NURSERY CO.
P. O. Box Q Azusa, Calif.

HELP WANTED

One of Michigan's largest and most progressive PEAT processors desires wholesale salesmen for southern and western United States. Salesmen who wish to supplement their present line preferred.

Territory covered on commission basis, with unlimited potential.

KENNETH J. ANDERSON
& SONS
Imlay City, Mich.
Phone: RAndolph 4-5975

HELP WANTED

SALESMAN

To call on trade in New York, Pennsylvania and New Jersey for large, old-established and well-known midwestern wholesale nursery. A complete line of nursery stock and many regular customers in the territory. An excellent opportunity for a qualified man. Write giving full particulars about self and send small photo. All replies held confidential. Write Box 383, care of American Nurseryman.

FOR SALE

Well-established nursery on busy highway just two blocks from city limits. Much building going on. 2½ acres of the best ground in the state with many evergreens and other nursery stock. Dandy garden store having knotty pine interior. Lath house and potting shed. Garage with carport. Also 4-room living quarters, all knotty pine inside. A beauty of a place. For quick sale, only \$37,000.

SWANSON NURSERY
7016 Fort Crook Rd.
Omaha 7, Neb.

HELP WANTED

EASTERN PENNSYLVANIA

To work with owner as assistant superintendent in old established landscape nursery. College background unnecessary. Should have practical experience and be observing and willing. Right man starts at \$5000 and bonus if he can produce. This job open only to a man who is presently employed. Reply to Box 453, care of American Nurseryman.

HELP WANTED

MANAGER TRAINEE

Retail sales. \$300.00 month plus bonus. Excellent chance to advance with earnings \$7,000 to \$8,000. Must have above-average sales ability.

Charles Crum
ROSEDALE'S NURSERIES
400 W. Huntington Dr. Monrovia, Calif.

HELP WANTED

LANDSCAPE SALESMAN

Excellent opportunity with prosperous nursery in Seattle, Wash. Salary and commission. Give references and particulars in first letter. Write to Box 454, care of American Nurseryman.

HELP WANTED

GARDEN STORE MANAGER

Western New York location. Experience not necessary, but must be a merchandiser. Outstanding opportunity. Guaranteed salary plus profit sharing. Send full details. Replies kept in strict confidence. Address replies to Box 419, care of American Nurseryman.

FOR SALE

Nursery and sales station comprised of one and one-eleventh acres, new sales office, implement shed, over 200 feet of highway frontage; fully stocked with excellent nursery stock; on Canada's best highway near some of the biggest cities in a fast-growing district. Price \$11,000; \$5,000 cash. Write to Box 444, care of American Nurseryman.

FOR SALE

Profitable established retail nursery and garden center in fine residential area of booming Denver. Approximately 2400 sq. ft. garden shop, 1500 sq. ft. basement, sales and storage, 3500 sq. ft. lath house, 12 city lots. \$40,000 to \$75,000, terms depending on inventory and number of lots taken. Write Box 449, care of American Nurseryman.

SITUATION WANTED

English propagator, single, age 50. Thirty-six years' experience in trees, shrubs, climbers, rhododendrons and roses. Knowledge of stove plants, carnations, pelargoniums and cyclamen. Excellent references from leading firms in England. Copies sent on request. Reply to:

M. DOLAN
15 Chesfield Rd.
Kingston on Thames
Surrey, England

SITUATION WANTED

Experienced nurseryman desires position with progressive concern on west coast or Pacific northwest. Age 42, married, 2 children. University graduate. 20 years' experience in nursery business covering practical to executive background of production and management with one of America's largest growers. Thorough knowledge of plant materials, production and sales. Write Box 450, care of American Nurseryman.

SITUATION WANTED

Experienced wholesaler and retailer, former successful owner, desirous of making contacts to merchandise and advertise nursery stock for firms desiring to expand garden center or sales lots. Write to Box 446, care of American Nurseryman.

SITUATION WANTED

Young man, married, one child. 10 years' experience and graduate of Royal Horticultural Society's school of gardening, Wisley, England. At present supervisor of gardens, Balmoral Club, Nassau, Bahamas. Desires post in United States. Available December. Write to Box 448, care of American Nurseryman.

SITUATION WANTED

Young married man, with eight years' experience growing perennial plants and as a garden center salesman, desires position with future in the north New Jersey area. Phone: Princeton 1-7066 or write:

F. D. HENSLER
R. D. No. 2 Carter Rd. Princeton, N. J.

SITUATION WANTED

Experienced nurseryman and former private estate superintendent, seeks to local with private estate, institution or commercial project where administrative capacity is one of the essential requirements. Have A-1 references. Available about January 1. Write to Box 452, care of American Nurseryman.

BOOKS for Nurserymen

Better Fruits and Flowers

For northeast and midwest. New, greatly enlarged edition. Illustrates in full color 430 items, ornamentals and fruits, popular in these areas. 96 pages in full color, 8½x11 ins. in size, with substantial cover. **\$4.00 each.**

Dependable Plantings

Northwest Plate Book. Developed for severe cold climate areas. 179 subjects in full color. 32 pages, 9x12 ins., with durable cover. **\$1.50 each.**

Flowers and Fruits

For the southwest. Illustrated in full color—320 items—64 pages in color with heavy durable cover. 8½x11 ins. in size. **\$3.00 each.**

Standard Nursery Catalog

48 pages and cover. Nicely illustrated. **50c each.**

New Evergreen Folder

25 popular items of narrow-leaved evergreens—in full color. **15c each.**

New Shrub Folder

31 popular flowering shrubs in full color. **25c each.**

Correct Planting Methods

A pocket-size, 48-page booklet. Very complete but concise information, well illustrated. Helpful in preventing claims for dead stock that cost nurserymen money. Sample, **10c.** Write for discounts on quantities.

Write for Quantity Discounts.

Cash with order, please.

A. B. MORSE CO.
ST. JOSEPH, MICH.

WANT ADS

Display: **\$4.50** per inch, each insertion.

Lines: **40c** line; minimum order **\$4.00.**

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1000 Magnolia Ave. Elizabeth, N. J.

FOR SALE

Well-established going concern. Approximately 4 acres of good, rich, black loam soil. Located on U. S. highway. 2 greenhouses, underground storage, warehouse and shop, sales building and office, well planted with nursery stock. Residence available if desired. Reply to Box 455, care of American Nurseryman.

SITUATION WANTED

Experienced garden center manager, interested in affiliating with a progressive garden center, preferably with year-round activity, on a salary and commission basis. Have good nursery experience. References furnished. Available January 1. Write to Box 461, care of American Nurseryman.

VERHALEN DEALER AIDS

A concrete advance in the much-discussed field of nursery dealer aids was made recently when the Verhalen Nursery Co., Scottsville, Tex., launched its "Fall Plantorama" promotion. In addition to supplying retailers with selected plants, point of sale advertising material and planting instructions in standardized kits, the Texas wholesaler conducted a newspaper, radio and television campaign directed to consumers in the Dallas area publicizing the fall planting material available at local retail nurseries.

According to Stephen Verhalen, secretary and sales manager, the Verhalen Nursery Co. decided to attempt to increase late summer and early fall trade by advertising directly to gardeners and homeowners through local media. For its trial campaign, which Verhalen's dubbed "Fall Plantorama" to distinguish and unify it, the company selected six plants of popular varieties suitable for fall planting. Banners in various colors, plant pictures and planting instructions were printed. These materials were offered to dealers in packaged units, or kits, of three different sizes.

The nursery then advertised the 30-day event in newspapers and on radio and television in the Dallas area, where the company's own retail store is located. Newspaper stories were also released, along with articles for Sunday gardening supplements. Mr. Verhalen reports that dealers' sales during the first week-end of the campaign were most satisfactory, resulting in heavy reordering of the "Plantorama" kits. Despite bad weather, which slowed the campaign considerably on the following two week-ends, retail nurserymen in the area were enthusiastic in their commendation of the grower's direct selling assistance.

Mr. Verhalen states that the next move in this direction should be a similar campaign of much broader scope, conducted by several cooperating growers or wholesalers. He believes that suppliers' advertising of this type, aimed at stimulating demand among dealers' customers, particularly during the slower nursery seasons, will be a significant advance in the trade.

FORMS EASTERN COMPANY

Everett Conklin, for 20 years associated with the Bobbink & Atkins organizations in various managerial capacities, has established a new company known as Everett Conklin & Co., Inc., Wholesale Florists & Nurserymen, at 590 Paterson avenue,

Join the

**PREMIER
PROFIT
PARADE**

It's the
HIT PARADE
in
PEAT MOSS



It is **TOPS**
for nurserymen to **SELL!**

Premier's tightly filled packages are poly-laminated inside and outside for clean, easy handling—can even be stored outdoors. Premier packages are colorful and eye-catching—better looking and better selling. Premier increases your peat moss sales and profits. More Premier is sold than any other brand.

It is **TOPS**
for nurserymen to **USE!**

Premier's tightly compressed big-value bales give you the *best buy*—and the best *quality* for soil conditioning, mulching, lining out, seed-beds. Premier's world-wide resources assure *quality, value and service* that cannot be matched.

**Any combination
shipped in one car.**

Send for full details today.
PREMIER PEAT MOSS CORP.

535 Fifth Avenue, New York 17, N. Y.

PREMIER
Sphagnum
PEAT MOSS

VAUGHAN'S VAL-PEAT POTS

SAVE TIME — SAVE MONEY — SAVE LABOR

Here is an expendable pot which saves time and labor of knocking plants out of pots which amounts to more than the cost of our Val-Peat Pots.

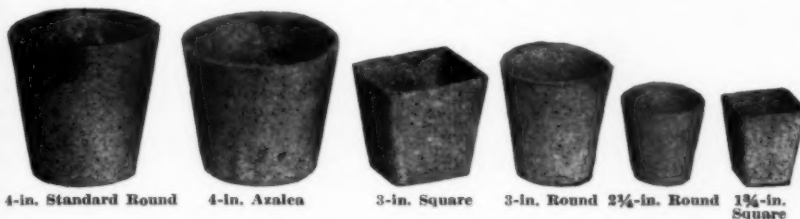
Val-Peat Pots save many man-hours bringing clay pots from storage, sterilizing, knocking plants out and returning pots to storage.

You plant only once. You set out pot and all. No trouble with nitrogen starvation. The composition of

Val-Peat Pots avoids troubles you may have had with other types of fiber.

For nurserymen our Val-Peat Pots come in six sizes — 1½-in. to a 4-in. standard. Some growers prefer a square pot as they save space.

Write now for free sample (stating sizes desired), so you can save money on 1958 spring sales of perennials, liners, bedding plants and vegetable transplants.



WE PREPAY DELIVERY
ON VAL-PEAT POTS —
ORDERS MUST BE 150
LBS. OR OVER FROM
CHICAGO, LEANON,
IND., AND NEW YORK,
WITHIN A RADIUS OF
1,000 MILES.

Inside top Dimension of pot	Number of pots	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000	Inside top Dimension of pot	Number of pots	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428 1½-in. Side Square	2,500 to 17,500 20,000 to 70,000 72,500 and over	2500	30 lbs.	\$7.00 6.50 6.00	S-1428D 3-in. Side Square	1,000 to 9,000 10,000 to 49,000 50,000 and over	1000	30 lbs.	\$16.50 15.25 14.00
S-1428A 2¼-in. Diameter Round	2,000 to 18,000 20,000 to 74,000 76,000 and over	2000	32 lbs.	7.25 6.75 6.25	S-1428C 4-in. Diameter Round	500 to 2,000 2,500 to 9,500 10,000 and over	500	30 lbs.	27.50 25.00 22.50
S-1428B 3-in. Diameter Round	1,000 to 9,000 10,000 to 49,000 50,000 and over	1000	28 lbs.	13.25 12.25 11.00	S-1428E 4-in. Round Azalea	500 to 2,000 2,500 to 9,500 10,000 and over	500	28 lbs.	25.00 22.50 20.00

CHICAGO 6
601-609 W. Jackson Blvd.

Vaughan's Seed Co.

NEW YORK 13
85 White St.

graduate landscape architects whose income is partly derived from contracting commissions on the sale of nursery stock.
D. A. K.

MASSACHUSETTS PROGRAM

[Continued from page 14]

sion specialists help individuals take advantage of the products of agricultural research, assisting them with such varied problems as crop varieties, pesticide sprays and fertilizers. Dr. Havis said that he and his staff are ready at all times to work with the nurserymen in Massachusetts and to provide the advantages of all the facilities which the department has in order to be of assistance.

Frank T. White, Brockton, president of the Massachusetts Nurserymen's Association, announced that a short course in landscape architecture will be conducted at the Waltham field station for members of the nursery industry and other interested parties. The dates of this course are February 20 and 21, 1958. Mr. White

MIST-A-MATIC

THE BEST — MOST DEPENDABLE AUTOMATIC MIST PROPAGATION SYSTEM
MISTING CYCLES EXACTLY CONTROLLED BY WEATHER CONDITIONS

— ALSO —

COMPLETE GREENHOUSE AIR-CONDITIONING AND MISTING SYSTEMS
FAN AND PAD — HIGH AND LOW-PRESSURE MIST NOZZLES — SOLENOIDS, ETC.

Write for details—designs—or individual problems

E. C. GEIGER CO., P. O. Box 270, NORTH WALES, PENNSYLVANIA

Liquid Hormones For ROOTING CUTTINGS

Now you can root your cuttings by merely soaking hundreds at a time for a few moments in Hormex solution before inserting in medium—or by flooding the medium before or after inserting cuttings. Liquid is cheaper, faster, easier than powder.

Hormex is also widely used for spraying—to stop blossom or fruit drop, or set blossoms into more fruit and seed.

Economy size, \$2.49, prepaid, makes 8 to 100-gallon solution. Money-back guarantee.

BENSON-MACLEAN Bridgeton 2, Ind.

Roots Cuttings—Sets Blossoms
HORMEX

NURSERY TAGS

"Weather Resistant"

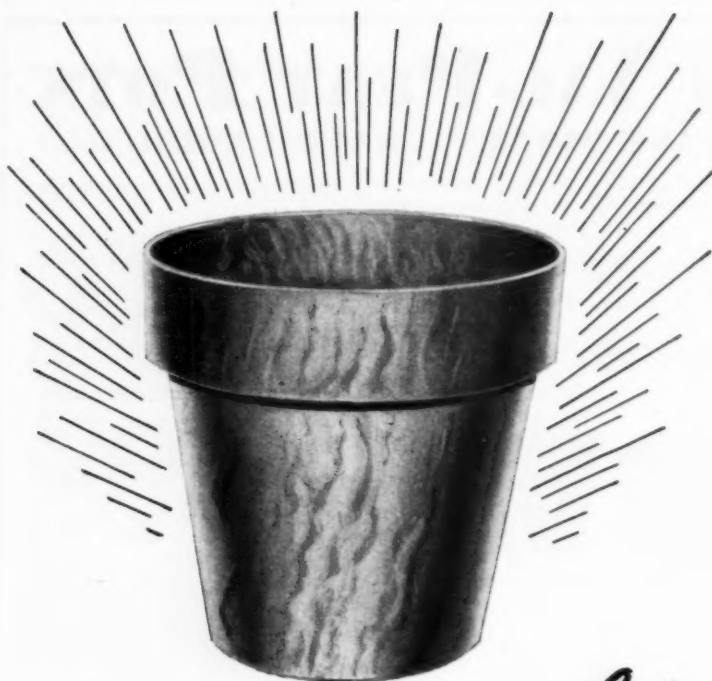
Size 1/8 x 1 1/2 in.
Prices per 1000—Tag Stock

1000 to 4000.....\$1.35	20,000.....\$0.90
5000 to 9000.....1.10	50,000......75
10,000.....1.00	100,000......65

• Made of Water-resistant Paper Stock
• 8 Colors Available • 9 Sizes and Styles
• Sheets of Ten for Typewriting

Write Today for Prices and Samples

PREMIER SOUTHERN TICKET CO., INC.
P. O. Box 5 CINCINNATI 7, O.



*The most popular
Marbleized Plastic
Pots on the Market!*

UNION PRODUCTS INC., Leominster, Mass.

Peat Moss

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Wood Labels

A Complete Line of Truck Farm Containers
and

The New "45" All-Purpose Tar Paper Pot in All Sizes

NEW JERSEY FARM SUPPLY COOP. ASSN., INC.

447 Market St.

EAST PATERSON, N. J.

Phone: FAirlawn 6-2342

Manufacturers and Distributors of Tar Paper Pots

also announced that the annual meeting of the Massachusetts Nurserymen's Association will take place January 14, at the Hotel Kenmore, Boston.

WINS CHICAGO AWARD

Nels J. Johnson, dendrologist, of Evanston, Ill., was awarded the Charles L. Hutchinson medal of the Chicago Horticultural Society November 14 at the group's annual meeting at Chicago. Honoring the 250th anniversary of the birth of Linnaeus, the meeting also featured an address by Gosta Oldenburg, consul general of Sweden.

Mr. Johnson's continuing efforts over several years to obtain legislation requiring licensing of tree experts met success recently with the enactment of the so-called tree expert bill by the state of Illinois, and it was primarily this work which earned his nomination to receive the Hutchinson medal.

Mr. Johnson was born in Sweden in 1904 and studied at the University of Uppsala before coming to the United States in 1926. He studied plant pathology at the University of Chicago and engineering at Illinois Institute of Technology and received his Ph.B. degree from Northwestern University, Evanston, Ill. Since 1930 he has operated as a tree expert, with offices at Evanston, serving many municipalities, park districts, cemeteries, private institutions and large estates in the Chicago area.

In 1954 he was appointed to a special commission by the city of Goteborg, Sweden, to study and report on the condition of a large number of 100-year-old elm trees on the principal boulevard of that city.

HOLLY SOCIETY MEETING

[Continued from page 8]

exposed trunks of the hollies. Dr. Johnson's tests indicate, Dr. Hamilton said, that extreme care should be observed in using the trunk-painting method of applying Systox.

Experimental tests during the past spring and continued observations on commercial sprayings show the value of delayed dormant spraying for control of southern red mite.

Systemic Insecticides

Systemic insecticides, such as Systox, Sytam and Thimet, diluted at the rate of one pint and two pints to 100 gallons of water and applied in late April or later, gave good control of the southern red mites for the remainder of the spring and through the summer. These products have

HERE IS WHY NURSERYMEN PREFER MENNEPOTS



Superior Strength

Sturdily constructed, the MENNEPOT withstands hard handling.

Stapled Bottom

Comes completely assembled . . . Potting can start immediately upon arrival.

Light Weight

The MENNEPOT is economical to use. Light weight makes shipping costs less.

Drainage

The side-drainage feature makes waterlogging impossible while standing in salesyard.

Size 0 Top . . . 4 ins.
Bottom 3 1/2 ins.
High . . . 4 ins.
Weight per 100
Regular 10 lbs., Heavy 25
Regular Weight Price
100. \$2.75 1000. \$35.00
Heavy Weight Price
100. \$3.75 1000. \$35.00

Size 0 1/2 Top . . . 5 ins.
Bottom 4 ins.
High . . . 5 ins.
Weight per 100
Regular 13 lbs., Heavy 30
Regular Weight Price
100. \$3.50 1000. \$32.50
Heavy Weight Price
100. \$4.50 1000. \$42.50

Size 1 Top . . . 6 ins.
Bottom . . . 5 ins.
High . . . 6 ins.
Weight per 100
Regular 15 lbs., Heavy 35
Regular Weight Price
100. \$4.00 1000. \$37.50
Heavy Weight Price
100. \$5.25 1000. \$50.00

Size 2 Top . . . 7 ins.
Bottom 5 1/2 ins.
High . . . 7 ins.
Weight per 100
Regular 24 lbs., Heavy 55
Regular Weight Price
100. \$4.50 1000. \$42.50
Heavy Weight Price
100. \$5.75 1000. \$55.00

Size 3 Top . . . 8 1/2 ins.
Bottom 6 1/2 ins.
High . . . 9 ins.
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100. \$5.00 1000. \$47.50
Heavy Weight Price
100. \$6.25 1000. \$60.00

Size 4 Top . . . 10 ins.
Bottom . . . 8 ins.
High . . . 10 ins.
Weight per 100-120 lbs.
100. \$11.00
500. \$52.50 1000. \$100.00
*Heavy Only—
For trees and shrubs.

Size 5 Top . . . 12 ins.
Bottom . . . 10 ins.
High . . . 12 ins.
L.G. POT
Weight per 100-250 lbs.
20. 30c ea. 100. \$27.50
500. \$125 1000. \$225
*Special for extra-large
trees and large shrubs.

Size Pan Top . . . 8 1/2 ins.
Bottom 7 1/2 ins.
High . . . 5 ins.
PAN
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100. \$5.00 1000. \$47.50
Heavy Weight Price
100. \$6.25 1000. \$60.00

Distributors

NEW YORK	Jackson & Perkins Co., Newark, N. Y. Gar Prod., Inc., Queens Ave., Lindenhurst (Long Island), N. Y.
OHIO	Skoll Distributing Co., 560 E. 99th St., Cleveland, O. I. G. Harmon & Son, 1800 19th St., Canton 4, O.
PENNSYLVANIA	E. C. Gelger, North Wales, Pa. Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa. Rt. 88, S. Park, Pittsburgh, Pa.
NEW JERSEY	New Jersey Farm Supply, 449 Market St., East Paterson, N. J. Somerset Rose Nursery, Inc., New Brunswick, N. J.
MICHIGAN	Michigan Bulb Co., 845 Ottawa, N.W., Grand Rapids, Mich. Growers Exchange, Inc., P. O. Box 397, Farmington, Mich. Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich.
RHODE ISLAND	American-Dutch Trading Co., Inc., 47 Coddling St., Providence, R. I.
CANADA	The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada.

500 of a size takes 1000 rate in sizes 0-0 1/2-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0 1/2, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0 1/2 and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

SEND \$1.00

FOR COMPLETE SET OF 14 SAMPLES.

THE MENNE-POT, INC.

NORTH TONAWANDA, N. Y.

Phone Ludlow 4444

Prices Vary Slightly in Areas Served by Distributors
DISTRIBUTORSHIPS OPEN IN SOUTHERN STATES

also given promising control of the holly leaf miner on American holly when the plants were thoroughly sprayed just as the larvae were hatching from the eggs, usually around the middle part of July. Equally good results were obtained on a new species of miner infesting *Ilex glabra*, inkberry or gallberry, when the systemics were applied in late June or early July just as the eggs were hatching.

Dr. Hamilton cautioned that systemic insecticides are extremely poisonous and dangerous to use and no one should attempt to apply them unless he follows all the precautionary measures that are given on the labels.

Daniel G. Fenton, holly orchard manager, New Jersey Silica Sand Co., chairman of the program committee, announced that the spring, 1958, meeting would probably be held at Rutgers University if the new horticulture building is completed by that time. The fall meeting will be held at Richmond, Va.,

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Prompt Shipments
"Hollandia" Burlap
SQUARES
REED MATS

for Coldframes

Write for Prices
State Requirements

NEW AMSTERDAM IMPORT CO.
101 W. 31st St. NEW YORK 1, N. Y.

and will be the first such program for that city. Merritt I. Taylor is committee chairman. Mr. Fenton said, and this should be an outstanding meeting, because of the many large hollies in that area. The spring, 1959, meeting will be held at the University of Delaware, Newark, Del., to observe the early results of the society's research project.

Arboretum Report

Dr. John C. Wister, director, Arthur Hoyt Scott Horticultural Founda-

tion, Swarthmore College, Swarthmore, Pa., presented the report of the arboretum committee. Since the spring, 1957, meeting at the University of Maryland, he read, the committee has learned of two new proposed arboretums. The problems these, like other arboretums, are faced with are many: What varieties to plant? Where to plant? How much space to allow? Suitable labels. All this is a healthy sign, and the committee is confident that after a decade and more of experience in

NOW...**A ~ LONG ~ LASTING
SOURCE OF VITAL POTASSIUM**

After years of research and testing, California scientists have solved the problem of maintaining potassium in good supply in any soil. The answer is DURA-K, the "potassium glass" with low solubility, high effectiveness, and a high degree of safety.

DURA-K weathers slowly, releases the right amounts of potassium into the soil month after month despite the heaviest watering.

DURA-K is truly . . . "POTASSIUM INSURANCE"

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GLOSTEX CHEMICAL CO.
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Please send me: (1) Full Research Data on DURA-K.
(2) FREE SAMPLE of DURA-K for pot test.

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CITY _____

Grows Better...

PLANTER BOXES
POTTED PLANTS

ORCHIDS, CARNATIONS,
ROSES, ETC.

TURF, GOLFING GREENS

**NO SIDE EFFECTS...
WILL NOT LEACH OUT**

In many soils one application of DURA-K can supply needed potassium for a year.



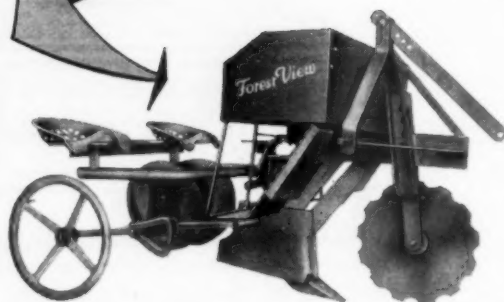
designing and managing ilecetums, the early mistakes will not be repeated. The committee reaffirmed its readiness to offer suggestions or to direct hopeful horticulturists to authoritative sources of information.

The committee's function in education, Dr. Wister added, is being continued by means of exhibits and information booths. Professor Clark, the committee's chairman, is already arranging an exhibit at the 41st annual international flower show at the New York Coliseum, March 9 to 15, 1958.

The committee's report encouraged all members to accept invitations to talk on holly, stimulating people to grow and to appreciate the usefulness and beauty of holly.

Holly Research Project

Dr. Ralph L. Dodge, Sassafras Farm, Cecilton, Md., chairman of the research committee, outlined the holly research project and announced that the University of Delaware had been selected to undertake the work over a 3-year period. This project involves a study of the nutritional requirements of the hollies and results from the rapidly increasing interest in these plants and the lack of comprehensive knowledge of their requirements. An initial or labor-

ForestView TANDEM PLANTER
... cuts tree planting time and costs

- Exact, positive spacing with exclusive timing wheel
- Correct planting depth on any terrain with special contour lever
- Exclusive, scalloped counter wheel for fast, easy cutting of sod, etc.
- Twin-seat design cuts planting time in half

The most rugged, versatile tree planter ever built, the ForestView Tandem Planter assures fast, low-cost planting of seedlings, lining-out stock, potted material or other small plants. Easy to operate lever control permits instant adjustment to even the most rugged terrain. The newly designed, patented trencher shoe speeds planting of potted material and liners without damage. Precision alignment of stripper bar prevents clogging by weeds and undergrowth. Commercial steel construction throughout—ball-bearing mounted heeling wheels. Mechanized planting eliminates human error—insures better survival.

Dealer Franchise Being
Made Available on a Na-
tional Basis. Send for
complete details on dealer
discount plan.

Write today for literature and prices — FREE

FORESTVIEW EVERGREEN NURSERY

Dept. AN

Germania, Penna.



atory phase of two years will be required at Delaware, with an expanded testing of the knowledge obtained under field conditions in the south, the east and the west coast and possibly some central state. The breadth of this program, Dr. Dodge indicated, will make its findings of value to all who grow holly.

Richard M. Wyman, Wyman's Framingham Nurseries, Inc., Framingham, Mass., in charge of raising the necessary funds for the holly research project, reported excellent response to the letters previously mailed to the membership. A third of the personal members and over a fifth of the sustaining members have already pledged nearly half of the \$12,000 needed to complete the study. Mr. Wyman urged members who had not previously contributed to the fund to do so when possible.

Oxygen Need of Hollies

Dr. Dodge called upon Professor Clark to speak on a research project on the oxygen needs of hollies, being carried on at Rutgers University. Professor Clark reported that 100 1-year rooted cuttings of American holly were growing under similar conditions in 2-foot lengths of impervious tiles. The plants were all of uniform size and donated by Dr. Wolf from the orchards of the New Jersey Silica Sand Co. Washington silt loam was selected for the growing medium and was screened into five different particle size lots. These ranged from a very fine — powdery and acting not unlike a liquid — to a coarse aggregate. The tiles, he explained, were set in beds of water so that moisture would always be available by capillary action.

The hollies were planted the last week of July, 1957, in these various media, along with checks in unsifted soil to serve as controls. The plants were all measured and recorded, and weekly measurements of growth were made after the third week.

Some rather strange things happened, Professor Clark related. Plants were not expected to grow in the powdery soil, but they did. The best growth was expected on the coarsest soil; instead, the hollies did wonders in the medium-fine particle size soil, as well as in the checks.

Delaware Project Outline

The formal part of the morning's program ended with an outline of the holly research project to be conducted under the supervision of Dr. Charles Dunham, horticulturist, University of Delaware. Dr. Dunham, who had just received the Alex Laurie award for outstanding work in the field of floriculture, stated that



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the project is already under way and consisted of three phases.

The first part of the work he termed the nutrient-deficiency series. For this the hollies will be grown in sand cultures in which various essential elements will be withheld. From this study it is hoped to secure a series of slides showing leaf symptoms when each of the essential elements is lacking.

Second Phase of Project

The second phase will again involve sand cultures, using a series of different nutrient solutions containing varying ratios of elements and compounds. Here, under controlled conditions, the effort will be to arrive at a balance of the elements which will produce the best growth in holly. Extremes in growth responses will be sought in this phase in hope that some leads will be given to determine what is the ideal balance of fertilizing elements needed by these plants.

The final part of the study will involve growing the plants outdoors under lath, with the work based on laboratory studies. The hollies will be grown in a heavy loam and a sandy type of soil. An artificial mix for potted and canned plants will be included in this test in the interests of those nurserymen specializing in the sale of hollies in containers.

Plants for the study have been donated by the New Jersey Silica Sand Co.; Tingle's Nurseries, Pitts-ville, Md.; Ambrose Brownell, Milwaukie, Ore.; Alfred Teufel, Portland, Ore.; Richard M. Wyman, and Dr. Ralph L. Dodge, Cecilton, Md.

Auction Raises Funds

The morning program ended with a highly spirited but friendly auction conducted by Charles A. Young, Jr. Slightly more than \$200 was realized for the holly research project.

Presented to Longwood Gardens were a number of specimen hollies to be planted in the arboretum. Dr. Seibert said that eventually some of the hollies shown and described by Professor Clark the evening before would be available to members of the society and nurserymen. This will be the result of a plant exploration trip in Europe by the U. S. D. A., financed partly by Longwood.

In addition to displaying a number of named varieties of potted hollies, the Rev. William C. Frierson, of Frierson's Flowers, Denmark, S. C., made available cuttings of red, yellow and orange-berried Ilex myrtifolia to those who wished them.

Daniel Fenton described his recent trip, in company with Dr. Wolf,

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to take part in the summer meeting and tour of the Oregon Holly Growers' Association.

Hollies in Containers

Dr. Ray R. Hirt, senior professor of botany, State University of New York, college of forestry at Syracuse University, Syracuse, presented a thought-provoking paper on growing hollies in containers. He discussed the possibility of poor growth of plants if root systems became crippled and distorted because of culture in too small containers.

There is much yet to be learned about the commercial reproduction of plants and their early culture, Dr. Hirt declared. Hollies should be started in containers chosen on the basis of suitable size for the plants, rather than for space available to the grower. Plants in containers should be kept there for a minimum time. Perhaps seedling grafting stock should have the taproot removed. Perhaps top growth ought not to be encouraged too greatly while plants are in the containers. Possibly planting directions should specify spreading or straightening out of the visible roots and not stress so much the advantage of the intact soil ball.

At least two of the members of the Holly Society are growing hollies in wire baskets with a compar-



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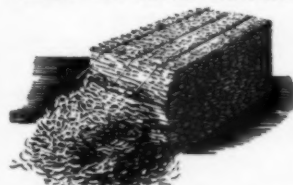
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atively large soil ball. Dr. Hirt considered this a progressive practice. He concluded his talk with a series of colored slides and with the hope that others might undertake to sponsor or conduct studies that would improve the present methods of culturing native and exotic hollies when in and removed from impervious containers.

Handbook Meeting Need

Harry William Dengler, extension forester, Maryland extension service, University of Maryland, College Park, a society trustee, discussed the "Handbook of Hollies" recently issued by the American Horticultural Society with the cooperation of the Holly Society of America. The handbook, he said, is being very well received, and the reviews currently appearing in magazines are excellent.

The handbook, he explained, resulted from the need for a relatively inexpensive publication which could be used in answering numerous inquiries from all over the United States. In closing, Mr. Dengler expressed his sincere appreciation to the American Horticultural Society for its encouragement in undertaking the task of editing the handbook and publishing it. He also asked contributing writers of the handbook to stand and be introduced.

Dr. William J. Hanna, soils department, New Jersey Agricultural experiment station, New Brunswick, was the final speaker on the program, with a talk on "Fertilizers for Hollies." He presented a series of tables suggesting amounts of fertilizers to be used on fruiting hollies, depending on soil types and the sizes of the trees.

In general, Dr. Hanna recommended that fertilizers for hollies should be broadcast. For heavily cut trees, growing on sandy soils, he advocated applying one-third the suggested amount in early spring and the remainder somewhat later. In the case of larger or very old trees, one might broadcast one-half the recommended amount and put the rest in staggered holes punched into the ground at depths of from three to 15 or 18 inches, Dr. Hanna advised.

On the question of oak leaf mold versus fertilizers for hollies, Dr. Hanna pointed out that numerous hollies 20 years old were as large as hollies 40 and more years old fertilized solely with leaf mold. This observation was borne out by Dr. Wolf, who stated that everywhere in his travels it was obvious that hollies were not being given sufficient fertilizer or water.

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A BUSMAN'S HOLIDAY

[Continued from page 13]

be found in Yellowstone national park. The park herbarium was started by Dr. Henry S. Conard, who collected 716 species of plants in the park in 1924-26. Many other collectors have added to this herbarium since. An interesting book "The Plants of Yellowstone National Park" (revised edition) by W. B. McDougall and Herma A. Baggeley, can be obtained from the Yellowstone Library and Museum Association, Yellowstone Park, Wyo. The blooming season is very short, and great numbers of the plants are in bloom at the same time from July until early September.

Flowers Noted

Outstanding among the flowers which we saw were blue camass, sego lily, leopard lily, marsh marigold, Oregon grape, globe-flower, bear grass, rushes, narrow-leaved cattail, wild grasses, wild columbine, bitter-root, yellow pond lily, lupine, prickly-pear cactus, sugar bowl clematis, stonecrop, cinquefoil, wild geranium and fireweed.

Among the ferns were lady fern, brittle fern, western bracken, mountain parsley and holly fern. In the



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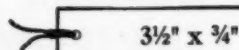
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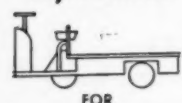


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evergreen species were the lodgepole, limber and white-bark pines; Rocky mountain and common junipers; blue Douglas fir and Engelmann and blue spruce. Among the deciduous trees were quaking aspen, plains cottonwood, narrow-leaved cottonwood, balsam poplar, varieties of willow, red birch, mountain alder, Rocky mountain maple and mountain ash, with many types of shrubs.

It may be of interest to note that March 1, 1872, President Ulysses S. Grant signed a bill, which was introduced in Congress, proposing the creation of the park, and this wonderland was given into the keeping of the American people for all time. Excellent recreational facilities, such as boating, horseback riding and fishing, are available. Yellowstone is one of the few parks in which no fishing license is required.

For any who wish to visit Yellowstone a few thoughts can be passed on as to what to take. They are, for those who enjoy hiking and riding, heavy rubber-soled shoes and hiking or riding boots; medium-weight clothing for daytime wear, coats and sweaters for evening, raincoats for inclement weather; cameras and binoculars, and last, but not least, sufficient cash to take care of lodging, meals and gifts.

Montana High Spots

The following morning we started northward to the Wyoming-Montana state line. We took a few pictures on the way to Gardener, the only year-round entrance to Yellowstone.

This town is one of the greatest elk-hunting areas in the country, and bear, deer and other game are plentiful. We continued north to Livingstone, situated at the head of Paradise valley, through which flows the Yellowstone river, and at this point turned west on Route 10 through Bozeman pass to Bozeman, home of Montana State College, traveling on through open country to Helena, the state capital. Arriving at Helena at about sunset we obtained quarters at an AAA motel.

The following morning we arose early and took a brief look at this attractive city of Helena, which dates back to the gold rush of 1864, when it sprang up as a mining camp. It is the buying and transportation center for the rich stock-raising and agricultural country to the north. One of its prominent industries is lead-smelting. There are many dude ranches in and around this region.

When we stopped at filling stations pleasant greetings were always accorded us, and invariably a favorable comment was made concerning the

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Idaho

Along Route 10 we passed many horse, cattle and sheep ranches. Wild clematis and weeping birch could be seen along the Fork river, just prior to our entrance into St. Regis. We crossed the Idaho state line at 2:40 p.m. and continued down the precipitous, narrow, mountain road into the mining town of Mullan, famous for its gold and silver-mining enterprises. We drove on to Wallace, another mining center. The countryside abounds in lakes and streams, which provide a natural habitat for

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We arrived at Coeur d'Alene, the center for extensive white pine logging operations and headquarters for the Coeur d'Alene national forest. Here we had our first opportunity to view real logging operations, of which we had read much.

The highway encircles beautiful Lake Coeur d'Alene, which is two and one-half miles wide and 22 miles long. This is a popular resort center. At this city is located the Ohio Match Co.

A wide highway leads from Coeur d'Alene direct to Spokane, Wash., where we planned to spend the night. We called our son-in-law at University Park, Pa., and he casually informed us that our daughter, Karen, his wife, had given birth to a bouncing baby girl during the early morning hours.

Washington

Spokane, an Indian name which means children of the sun, is the second city in size in Washington. A beautiful 25-mile drive touches most of the outstanding points of interest. It is the metropolis of the rich inland empire of the Pacific northwest and has many splendid parks, wide boulevards and scenic driveways.

Thursday, September 14, we left Spokane for Grand Coulee dam. This dam is one of the mightiest man-made structures in the world. It rises 550 feet above bedrock and is as long as 12 ordinary city blocks. This dam, which impounds the mighty Columbia river waters, forms Roosevelt lake. The lake, which stretches for miles toward the Canadian border, is the source of irrigation for the Columbia river basin. There is a wide concrete highway surmounting the dam. It is said that this dam will reclaim 1,200,000 acres of fertile land.

We left Grand Coulee and returned along the Columbia river basin and equalizer reservoir. A short distance beyond this point, we saw several miniature whirlwinds similar to those seen on the plains of Kansas. We journeyed onward toward Wenatchee, known as the apple capital of the world.

As one drives toward Wenatchee valley the site is impressive with fruit trees in abundance. The Washington State College tree fruit branch experiment station, Ohme Gardens, North Central Washington Museum and Lincoln Rock Memorial are all located in this section.

Wenatchee, the center of the world's largest apple-growing dis-

trict, ships over 19,000 carloads of apples annually. The Washington state apple blossom festival is held here each spring. Throughout the entire valley we noticed the prevalence of vast irrigation systems, not only in orchards but also on farm land. We decided to move onward, not realizing the distance to Everett, our next destination.

The beautiful mountain scenery through Money Creek park, past Eagle Falls to Snohomish was uneventful; however, the last eight miles were literally a nightmare! Heavy fog had settled over the area en route to Everett, and only by following a large transport truck could we keep on the road. We arrived at Everett about 9 p. m., tired and hungry, but thankful that our journey that day had been completed.

Everett is a city of about 35,000, located on Port Gardner bay. One can see the Olympic mountains across the harbor, Mount Baker to the north and Mount Rainier to the extreme south, with their majestic snowcaps standing out clearly against the horizon. Everett is also the center of many renowned fishing spots. The climate of this city is moderate, and we were told that roses often are in full bloom at Christmas.

Friday, the thirteenth! We were not superstitious! We started out by 8 a. m., en route to Bellingham, Wash., and Vancouver, B. C. We passed many spinach and strawberry plantations and arrived at the international border at 11 a. m. Here we were treated cordially by both the American and Canadian immigration authorities, then stopped for an hour to inspect the surroundings on the Canadian side.

British Columbia

The magnificent Peace arch is an impressive symbol, bearing the words, "May These Gates Never Be Closed." Quite a tribute by two neighboring countries who have shown they can live peaceably! What a blessing it would be if all countries in the world could get along as amicably.

We arrived at New Westminster, the oldest incorporated city in British Columbia and the second-largest industrial center in the province, at noon. We stopped for a hasty lunch and then started on our visit to points of interest along the famous Marine drive in Vancouver. Vancouver, incidentally, is the center for mining and financial interests, and many salmon canneries and lumber mills are among its important industries. Here we saw for the first

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time many Eskimo men and women who apparently are employed in the local industries. We visited Stanley park, which contains over 1,000 acres of virgin forest, with shaded drives and walks, totem poles, rose gardens and the Lost lagoon with its great fountain. There are miles of ocean beach skirting English bay. Beautiful residential homes, exquisitely landscaped, can be seen along the 22-mile drive.

We stopped at the University of British Columbia to inspect its new and old building sites. We were particularly interested in the fascinating test and display gardens, located on the campus, as well as the new landscaping used around many of the buildings. Along the Marine drive we saw purple-leaved plums used for avenue plantings in some sections, whereas in other areas, weeping cherries and white birch had been used. Practically every homesite had at least 60 to 75 per cent of the plantings of annuals alone. We saw extensive use of red and orange-berried forms of pyracantha. It was dusk when we returned across the Fraser River bridge to Whalley, where we spent the night. Friday, September thirteenth, was not an unlucky day!

The next morning we retraced our journey to Bellingham and Everett and went to Seattle.

Seattle and Olympia

Seattle is one of the world's great seaports and is built upon hills with Puget sound on one side and Lake Washington on the other. Ships are continually coming from and going to all points of the globe, and the docks can accommodate 120 ocean-going vessels at one time.

Seattle is important for its shipments of red cedar and fir, as well as canned salmon. The famous Boeing Puget sound on one side and Lake aircraft factory is located here. Circling Lake Washington is the 52-mile Washington Boulevard drive. Seattle has 45 beautiful parks and is the site of the University of Washington, Seattle Pacific College, Seattle University and other schools. In the downtown area the waterfront, live fish aquarium, totem poles, Smith tower, and the harbor and mountains are points of special interest.

We left Seattle late in the afternoon and for once got off our main track and wound up at Puyallup, where the county fair was in progress. This city is but a short distance from Mount Rainier, which rises majestically 14,408 feet.

We continued to Olympia, where we spent the night. Olympia is the

state capital and located at the southern tip of Puget sound. Here we saw the capitol group of buildings of modified Roman-Doric architecture; the marker in Sylvester park indicating the end of the Oregon trail, and Priest Point park, an area of about 250 acres of natural beauty which borders the bay.

Portland, Ore.

The next morning we continued our journey toward Portland, where we arrived at 11 a. m.

Portland is known as the Rose city. Here are located the famous Washington park, with its international rose test gardens; Council Crest and Mount Tabor park, the sanctuary of our Sorrowful Mother, with its beautiful sanctuary grotto and gardens, and the famous Lambert Gardens. The first cloudy day we had encountered on our trip made it difficult to take the pictures we had planned.

Portland is favored with a mild climate, due to the Japan current. It is the leading wheat-export city in the United States. As a wool center, it is second only to Boston, and its livestock market is the largest on the northwest coast. The University of Portland, University of Oregon medical school, Lewis and Clark College, Reed College and the North Pacific College of Oregon are all located in this city.

The Lambert Gardens, only 15 minutes from the city's center, in southeast Portland, were established (1) to give ideas on good landscaping, (2) to reveal the conditions under which flowers, shrubs and plants grow best, (3) to demonstrate the culture of flowers, shrubs and plants, (4) to show, as each unfolds, the choicest blooms of plants and shrubs and (5) to please lovers of the beautiful.

The Lambert Gardens consist of 10 gardens and 30 acres of growing grounds. Outstanding are the sunken rose gardens, the fabulous mirrored rose garden, the terrace garden, Spanish pool and Italian court, the zinnia gardens, the peacocks and flamingoes. This garden alone is a MUST in the itinerary of anyone traveling in the Pacific northwest.

We drove to Salem, capital of Oregon, for lunch. Salem is the home of Willamette University. The State Capitol building, a massive structure of beautiful marble, provides an excellent view of the surrounding valley. The Oregon state fair is held here in September; blossom week in the spring and the cherryland festival in July attract many thousands of visitors.

We left Salem, en route to Albany,

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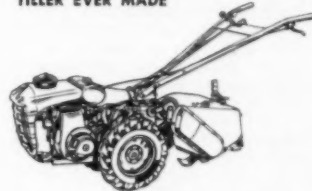
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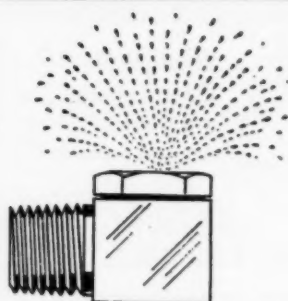


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scene of the world's champion timber carnival, which attracts loggers from all sections of the nation. From Albany we went to Corvallis, home of Oregon State College, late Sunday afternoon and found adequate quarters at a local motel.

TYLER ROSE CASE

A preliminary injunction request by three national rose firms to block digging and marketing of 40,000 to 50,000 rose plants by Andrew S. Smith at Tyler, Tex., was denied November 17 by the Federal District court there. A report of the decision in the Tyler Courier Times stated that Federal Judge Joseph Sheehy said it was not a question of whether the bushes were patented, but a "balance of equities." The question of patent will be decided by a jury in January.

A patent infringement suit, seeking damages and a permanent restraining order, was filed against Mr. Smith last September by the Conard-Pyle Co., West Grove, Pa.; the Jackson & Perkins Co., Newark, N. Y., and Armstrong Nurseries, Ontario, Calif., it being claimed that Mr. Smith was growing patented roses for future sale without a license. The suit further claimed that J. L. Dyess, a second party, had supplied Mr. Smith with budwood and that Mr. Dyess had agreed to purchase the rose plants.

Testimony for the recent preliminary injunction suit occupied three hours. Testifying for the plaintiffs were Dr. E. W. Lyle, plant pathologist for the Texas research foundation, and B. L. Ginn and L. A. Dean, rose growers. J. L. Dyess testified for the defendant.

ALABAMANS' FIRST SHOW

The first public exhibit of the newly organized Central Alabama Nurserymen's Association was displayed at the recent fall garden club flower show at Montgomery, Ala. Members of the association, which had met only twice prior to the opening of the show, found that working together on the project was an excellent method of becoming better acquainted.

Held in conjunction with the Alabama state fair, the flower show had taken for its theme a "Carnival of Flowers." The design for the association's exhibit was developed from a suggestion of one of the members, who remembered seeing fairgrounds laid out around a lake in her home state of Wisconsin, and was built around a large polyethylene-lined pool. Committee members appointed



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by the group's president, Holly Mitchell, Holly Mitchell Landscaping Service, Auburn, brought work crews and plant materials to the exhibition site and completed the planting in a few hours.

Thousands of people visited the exhibit during the week-long flower show, and their many questions indicated the effectiveness of a well-designed display of nursery stock in stimulating interest in planting. The highest compliment paid the exhibit was the request of one viewer that it be moved intact to her home and permanently planted.

"PLANT ILLINOIS" EFFORTS

G. A. Grundstrom, Grundstrom Co., Inc., Glenview, Ill., chairman of the "Plant Illinois" highways committee of the Illinois State Nurserymen's Association, is arranging a meeting of his committee with Alvan Gries, chief landscape engineer, highways division, Illinois state department of public works. Mr. Grundstrom has informed Mr. Gries that the Illinois nurserymen may be of some assistance to the landscape engineer's office.

The committee and all members of the association plan to keep Illinois senators and representatives informed on the value of woody plants in roadside plantings. To start this program, the committee sent all members of the state legislature a copy of the news release sheet on highway planting recently prepared by the American Association of Nurserymen.

SMOKE TREE RUST

The first observations and collections of a rust disease new to North America on the smoke tree, *Cotinus coggygia* (*Rhus cotinus*), are reported by G. E. Thompson, department of plant pathology, University of Georgia, Athens, in the Plant Disease Reporter, volume 40, No. 11. The disease first appeared in 1956 on a smoke tree planted about 40 years ago on the university campus at Athens. A few days later, the disease was found on another tree located on private property in the city.

According to Dr. Thompson, about 75 per cent of the leaves on the university's tree showed conspicuous spots, which were characterized by overgrown leaf tissue at the center and a surrounding ring of dead tissue. About 25 per cent of the twig tips and leaf petioles were abnormally enlarged and usually curved downward or to one side. The infected twigs were dead, so



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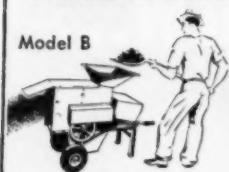
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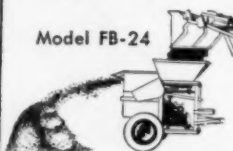
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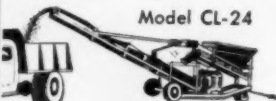
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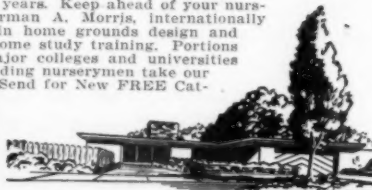
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that the tree appeared to be affected by a blight. A few infections were present on the flower pedicels.

A secondary fungus fruiting in the dead tissue of the leaf spots has been tentatively identified as a species of gloeosporium. The fungus causing the principal infection, however, is still unknown, though it is similar in many respects to a rust, *Pileolaria cotini-coggygrae*, reported in China in 1937. Further observations and efforts to establish the taxonomy of the disease are being continued by the college experiment station at Athens.

NAME LONG ISLAND DEAN

Carl F. Wedell, for 20 years head of the ornamental horticulture department of the Long Island Agricultural and Technical Institute, Farmingdale, L. I., N. Y., has been appointed dean of the institute's college of agriculture, it was announced recently by Dr. William A. Medesy, director of the institute. In addition to his many faculty duties, Dean Wedell served as president of the American Horticultural Council during the past two years and now acts as secretary-treasurer and member of the board of trustees of the council.

Joseph Roesch, who served as associate professor in the ornamental horticulture department under Mr. Wedell, is now chairman of this department. President of the Long Island Horticultural Society for the past three years, Professor Roesch has published many horticultural articles in magazines and newspapers.

SHOW WEED CONTROLS

Dr. Arthur Bing, of the ornamentals research laboratory, Long Island Agricultural and Technical Institute, Farmingdale, L. I., N. Y., and Robert Brewster, associate agricultural agent for Suffolk county, gave a demonstration on fall and spring weed control at the Oak Park Nurseries, East Patchogue, L. I., early last month. Included in the demonstrations were techniques of herbicide application with sprayers and spreaders. A similar demonstration was given later by Dr. Bing at Hicks' Nurseries, Westbury, L. I.

JOSEPH A. FRIEDLEIN, Richmond Hill, N. Y., has established the Holly Hill Nursery at Warrenton, Va.

EXPANDING into the retail nursery field, Kephart's Gift Shop, Desert Hot Springs, Calif., will offer container-grown stock.

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December 9 and 10	Nebraska Association of Nurserymen Cornhusker hotel Lincoln, Neb.	Bill Smart
January 6 to 8	Western Association of Nurserymen Hotel Muehlebach Kansas City, Mo.	Bill Smart
January 6 to 8	Indiana Association of Nurserymen Purdue University Lafayette, Ind.	Dan Briel
January 9 to 11	Iowa Nurserymen's Association Hotel Kirkwood Des Moines, Ia.	John McLaren
January 9 and 10	Oklahoma State Nurserymen's Association Mayo hotel Tulsa, Okla.	Bill Smart
January 13 to 15	Illinois State Nurserymen's Association Hotel La Salle Chicago, Ill.	John McLaren Bill Smart Dan Briel
January 22 to 24	Ohio Nurserymen's Association Neil House Columbus, O.	Dan Briel
January 29 to 31	Michigan Association of Nurserymen Fort Shelby Hotel Detroit, Mich.	John McLaren Dan Briel

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